

2022-2023 Undergraduate Academic Catalog

THE SPRING ARBOR UNIVERSITY CONCEPT

Spring Arbor University is a community of learners, distinguished by our lifelong involvement in the study and application of the liberal arts, total commitment to Jesus Christ as the perspective for learning, and critical participation in the contemporary world.

Undergraduate Catalog Disclaimer

The Spring Arbor University catalog contains information about the University and policies relating to the academic requirements and records of each student. Current and future students should refer to the Student Handbook and policy handbooks for the University's policies and procedures, which cannot be varied by an unauthorized employee of the University, either in writing or by an oral statement. The University reserves the right to change, add, or eliminate any university rule or regulation at any time including those relating to admission, instruction, and graduation. The University also reserves the right to withdraw, change, or add curriculum, cancel courses, alter course content, change the academic calendar, change instructors, and/or to impose, increase, or eliminate fees. All changes are effective at such times as the authorized authority determines and may apply not only to future students but also to those already enrolled in the University. Although the catalog establishes requirements that the student must fulfill to graduate and sets forth certain policies, it is not a comprehensive document of all curriculum and policies and does not serve as contract between the University, student, or anyone else.

Spring Arbor University is a Christian-based educational institution that does consider religion a criterion for various purposes in the administration and maintenance of the Spring Arbor University environment. Spring Arbor University does not exclude otherwise qualified applicants from participation in programs, activities, and/or benefits on the basis of race, color, national origin, gender, age, or handicap.

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ABOUT SPRING ARBOR UNIVERSITY

History of Spring Arbor University

Spring Arbor University was founded in 1873 by leaders of the Free Methodist Church. Called to minister to the poor, the early Free Methodists advocated freedom for slaves and free pews for all worshippers. In 1860, B.T. Roberts organized the Free Methodist denomination in New York, and in 1863, Edward Payson Hart began evangelistic meetings in Michigan and was the driving force behind the establishment of Spring Arbor Seminary—an academy for elementary and secondary grades. Located near the site of a former Potawatomi Indian village, the academy was built upon property that once belonged to Michigan Central College (now Hillsdale College). Devoted to the "promotion of earnest Christianity and sound, solid learning," Spring Arbor Seminary was open to all children, regardless of "religious convictions or beliefs."

Spring Arbor Seminary's enrollment grew to around 200 students in 1907, declined during World War I, but recovered after the Armistice. As one of its principals, H.A. Millican observed the academy remained committed to its original aim to "urge holiness of life and thorough Christian training, together with the highest type of mental culture." In 1923, the board of trustees voted to add a junior college to the academy. Some first- and second-year courses were offered over the next few terms, and in 1929 the school became Spring Arbor Seminary and Junior College. As the emphasis shifted toward higher education, primary and intermediate classes were discontinued in 1930. In 1960, when the school achieved regional accreditation, the trustees changed the name of the institution to Spring Arbor College. Soon the high school program was eliminated, and under the leadership of President David McKenna, Spring Arbor College launched its four-year programs in 1963, graduating its first class in 1965.

In 1979 Spring Arbor College was invited to offer baccalaureate classes at the State Prison of Southern Michigan. By the time the education program was eliminated by the State in 2000, the University's program had grown to serve five different correctional facilities, enrolled close to 3,800 inmates, and graduated 400.

In the early 1980s, the college began offering degree completion programs for adult learners in nearby Jackson. The initial class of students earned a bachelor's degree in management of human resources (MHR) and graduated in 1983. New programs and new locations soon followed with degrees in health-related fields at sites in Lansing and Flint. Spring Arbor College became a leader in the design of degree completion programs and once had a network of 20 affiliate colleges that adopted or adapted the SAC curriculum.

Graduate education began in 1994 with the inauguration of the Master of Arts in Management (MM) degree, which is now the Master of Business Administration (MBA). The University has consistently developed graduate programs and currently offers various degrees in business, communication, counseling, education, ministry, nursing, and social work.

On April 30, 2001, Spring Arbor College became Spring Arbor University. Recognizing the wide-ranging growth of its degree offerings, its locations, and its structure, the change in name also acknowledged new aspirations and an ambitious vision for the future. The move clarified the school's status internationally, positioned the institution to better reach a growing constituency, pushed the entire collegiate community to guard our spiritual heritage, and challenged the organization to excel academically and administratively.

In 2020, SAU began offering its first doctorate in the field of nursing practice in a completely online format, continuing the SAU tradition of innovation, meeting academic market needs through liberal arts education.

The Spring Arbor University Concept

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The Concept in Action

Since 1963, when the University became a four-year institution, the Spring Arbor University Concept has expressed the mission of the University. The Concept affirms the University's respect for tradition, its heritage of innovation, and its pledge to pursue excellence.

As a Free Methodist affiliated institution, SAU was founded as an outgrowth of the Wesleyan movement in American Christianity. The Spring Arbor University Concept echoes many of the prominent themes in the Wesleyan tradition. Among American Christians, Wesleyans have been notable for their emphasis on faith as a lifelong discipline of devotion, self-assessment, and spiritual growth. In calling for a community of learners who are committed to Jesus Christ as the perspective for learning, the Concept presents faith as a dynamic and ongoing process of personal development, continually enriched by reflection upon the Gospel of Christ. Learning is understood as an enduring commitment to explore new ideas, to undertake new challenges, and to live in holiness and integrity. Christian teachings offer the vital perspective on the acquisition and application of knowledge, not a static orthodoxy, but a vibrant inspiration.

The Concept also reflects the Wesleyan emphasis on application and experience rather than simply on cognition and analysis. Experiential learning has long been a feature of the curriculum. At advanced levels, students may receive hands-on experience in the University's sports labs, radio station, and TV studio, or conduct chemistry research at SAU or at major Midwestern laboratories. Disciplines with applied learning are anchored in the liberal arts. The General Education requirements offer breadth and balance, acquainting students with the methodologies used by several disciplines to pursue knowledge. With an interdisciplinary core program, the General Education curricula attempts to link learning to prior knowledge and experience; it also encourages students to think critically and creatively and to communicate with precision and empathy. Designed originally for a small, residential Christian college in a rural setting, the Concept underscored the value of learning within a community. On the central campus, that community has been defined by its common traditions, its campus-wide gatherings, and its core curricula. Chapel services, the Community of Learners Lecture Series, and the Focus Lecture Series provide opportunities for the full community to gather for worship and learning. Several interdisciplinary, issue-oriented core courses explore the ideals of the Concept. The Christian Perspective in the Liberal Arts (CPLA) Committee oversees efforts to make Christian values pervasive in the academic programs and the campus environment.

Statement of Faith

As an institution affiliated with the Free Methodist Church, Spring Arbor University acknowledges that the specific doctrinal confession to which it adheres does not define orthodoxy for the whole body of Christ nor is it comprehensive of every Christian truth. The University gladly embraces all who faithfully adhere to the essentials of biblical Christianity as fellow believers and co-laborers in Christ's cause. The University's statement of faith is based largely on the Articles of Religion in the Free Methodist Book of Discipline.

We believe in one God, the Holy Trinity: Father, Son, and Holy Spirit, as revealed in the Christian Scriptures known as the Holy Bible.

We believe that Jesus Christ is God's incarnate Son who lived a perfect life on earth, proclaiming God's reign and establishing a community of disciples; who sacrificially died on the cross for the sins of all people; who rose in triumph from death, accomplishing salvation for all who truly believe in him; who is now at the Father's right hand interceding for us; and who will return to earth in victory, judging all people and establishing his everlasting kingdom.

We believe in the Holy Bible as the inspired and authoritative Word of God. It bears unerring witness to Jesus Christ, the living Word. It is the trustworthy record of God's revelation, completely truthful in all it affirms, attested by the early church and subsequent councils, faithfully preserved and true in human experience.

We believe that human beings, men and women equally, are created in the image of God and are called to

be his faithful stewards on earth. Although all people have become alienated from God and affected in every part because of sin, by God's grace, all who truly repent of their sin and believe in the Lord Jesus Christ are justified by faith and adopted into the church, the people of God.

We believe that repentance and belief in Christ are evidenced by commitment to a life of obedience to the authority and commandments of the Holy Bible as interpreted through sound exegesis and a traditional biblical hermeneutic.

We believe that the value of human beings does not depend on their marital status, but that human families were established by God to perpetuate humankind and to provide a stable community for nurturing children in faith and righteous living. Marriage between one man and one woman is the instruction of the Holy Bible for establishing families, and physical sexual expression is to be confined to that marriage relationship.

We believe that God not only counts believers as righteous, but that he makes them righteous, freeing them of sin's dominion at conversion, purifying their hearts by faith, perfecting them in love by his Spirit, and providing for their growth in grace through God's participation at every stage of their spiritual life, enabling them through the presence and power of the Holy Spirit to live a victorious life of righteousness, justice, and practical usefulness.

We believe God's kingdom promises to establish "a new heaven and a new earth, where righteousness dwells" (2 Peter 3:13 TNIV) and where resurrected believers will participate in God's everlasting Kingdom.

Accreditation

All degrees offered by Spring Arbor University are accredited by the Higher Learning Commission (HLC), 230 South LaSalle Street, Suite 7-500, Chicago, IL 60604. Additionally, the following Spring Arbor University programs are governed by discipline accrediting agencies. Questions regarding accreditation may be directed to the Office of Academic Affairs.

The School of Education at Spring Arbor University is nationally accredited by The Council for the Accreditation of Educator Preparation (CAEP), 1140 19th St. NW, Suite 400, Washington, DC 20036.

The Bachelor of Social Work program is accredited through the Council on Social Work Education (CSWE), 333 John Carlyle Street, Suite 400, Alexandria, VA 22314.

The undergraduate and graduate nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE), 655 K Street, NW, Suite 750, Washington, DC, 20001.

Affiliations

Spring Arbor University is affiliated with the Free Methodist Church, though it is nondenominational in its admissions and hiring policies. Additionally, among its many associations, Spring Arbor University is a member of the Council for Christian Colleges and Universities, the Association of Free Methodist Educational Institutions, the Association of American Colleges and Universities, Campus Compact, the Association of Michigan Independent Colleges and Universities, and the Council of Independent Colleges. With intercollegiate sports teams, Spring Arbor is also part of the National Christian College Athletic Association (NCCAA), the National Association of Intercollegiate Athletics (NAIA) with a long commitment to the gender equity principles of Title IX.

Assessment

The University is dedicated to helping every student meet the ultimate, long-term outcomes and achieving learning outcomes identified by the University and each department or discipline. It is not sufficient, however, only to state these expectations concerning student learning and personal development. The University must

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evaluate whether it is achieving those goals, and the levels of learning and personal development that students have mastered, and the practices that have contributed to that mastery. The evidence and results of that evaluation can then be used to improve teaching and learning. The process of planning and collecting learning outcomes data, analyzing findings, and making improvements is incorporated into an assessment system.

The goal of the assessment system is three-fold:

- 1. support the learning process by providing usable information to faculty, students, and administration for improvement in student learning outcomes (academic and personal development),
- 2. strengthen SAU's ability to carry out its mission and achieve maximum institutional effectiveness, and
- 3. provide transparency and accountability to the University's varied internal and external audiences.

Spring Arbor University is committed to processes of continuous learning and program improvement through a variety of assessment and accountability measures and sees itself as a learning community. Guided by an Assessment Leadership Committee, the University has developed an assessment plan that includes institutional level assessments and department or program assessments. Annual assessment reports are required of all academic departments. Student cooperation is essential in gathering useful information for the assessment process.

The University has identified three institutional assessment areas: writing, critical thinking, and spiritual growth. These three are incorporated into all aspects of the curriculum. Assessment measures for these are especially embedded into the core general education curriculum. Assessment measures include sophomore and senior writing exams. Sampling studies are completed for critical thinking and spiritual growth. In addition to these three areas, the University uses the NSSE (National Survey of Student Engagement) and SSI (Student Satisfaction Inventory) to gauge student engagement in learning and student feedback about their educational experience at SAU. Other assessments, such as interviews and surveys are administered to students (and faculty) as appropriate. Exit interviews, focused groups, alumni surveys, research projects, and other measures are used to ensure that the University is a data-guided institution, making decisions about ongoing improvements using reliable information.

All departments and programs at SAU must participate in the assessment process. Departments develop an assessment process based on the identical learning outcomes and standards for their discipline and may use a variety of measures in assessing student learning and growth. Students can provide feedback on all courses through the course evaluation process. This feedback is provided to the faculty and departments. The University uses a software program to collect and store assessment data from across the campus. This software system provides a comprehensive means for considering the collected data, findings, and use.

Life on Campus

A Common Faith

Faculty, staff, and students share a common faith that gives their lives the sense of community – a bond that affects attitudes, student activities, residence hall life, class sessions, and academic programs. Spring Arbor University's faculty and staff attempt to foster an open, caring environment. Additionally, to build community and an understanding of the faith, students in main campus programs are required to attend chapel services twice a week, and curriculum in all classes includes an integration of faith and learning.

Benefits of the Spring Arbor University Community

The University, located in south central Michigan just eight miles west of Jackson, benefits from and serves its community in many ways. Spring Arbor University was established as a residential university and subscribes to the living/learning experience as a vital part of whole-person Christian education. Therefore, residence hall life is a special experience with the mission to guide student's growth through meaningful relationships with God and others in a purposeful living/learning community. Campus facilities include an athletic center with an indoor track and fitness center, offering year-round activities for both the University

and community. Student athletes compete in a multitude of intercollegiate varsity-level competitions open to the community. Other campus traditions and culturally enriching activities are enjoyed by students and the community. Twice-a-week chapel services often include prominent speakers and performers. The Student Government Association is active in providing leadership and service to resident and off-campus students.

Academic Support Center

Academic Support Center (ASC) provides resources to students to help identify or clarify learning needs and to implement strategies to help meet those needs. Students may participate in courses, seminars, study groups, tutoring, and mentoring sessions designed to enhance learning performance. Courses offered by ASC staff are found in the GES (General Studies) course descriptions. These courses may meet student needs through emphasizing study skills and groups, reading skills, math review, and testing strategies. The ASC also provides English as a Second Language (ESL) courses and disability services.

Accommodations for Students (ADA)

In addition to providing academic support courses, the Academic Support Center is sensitive to its responsibilities to the equal access accommodation and support of individuals with disabilities.

In accordance with Section 504 of the Rehabilitation Act of 1973, as amended in 1992, and the Americans with Disabilities Act (ADA) of 1990, ASC is proactive in developing specialized accommodations to support the abilities of each individual eligible for such services. Personnel consult with students, then accept, evaluate, and maintain documentation (consistent with ADA guidelines), establish or negotiate reasonable accommodations to reduce academic barriers for students, and notify instructors of the necessary accommodations for them in the classroom. Requests for any type of digitized textbooks should be given one month in advance.

Each year, students having need for accommodations must notify ASC of their continuing desire for services. Students are responsible for providing documentation and communicating with the staff of their ongoing need for adjustment or modification of the support plan established.

Contact Information: Academic Support Center, Spring Arbor University, 106 E. Main St., Spring Arbor, MI 49283; Phone: 517.750.6481; Fax: 517.750.6660; Email: amber.hollowood@arbor.edu

Community Standards of Conduct

As a Christian university dedicated to fostering academic, social, and spiritual growth for students, SAU expects students to govern their lives on and off campus in harmony with SAU conduct regulations while actively participating in the University community. Student handbooks outline standards of conduct.

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For detailed information on policies related to the federal compliance issues listed below and others, please visit the SAU website: https://www.arbor.edu/policies/student-right-to-know/.

Notice of Nondiscrimination

Spring Arbor University does not discriminate illegally based on sex, race, color, national origin, or disability in admissions or employment, and complies with Title IX (with exemptions), Sec. 504, and Title VI.

Credit Hour Policy

Spring Arbor University defines a credit hour for federal financial aid purposes as a unit that denotes the approximate and reasonable amount of work represented in intended learning outcomes for a course,

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verified by evidence of student achievement. Each credit hour awarded represents the equivalent to at least one of the following measures:

- One credit hour represents the equivalent to one clock hour of classroom or direct faculty instruction
 and two clock hours of course-related work completed outside of instructional time for approximately
 15 weeks. Equivalent work is required for modular or accelerated courses with reduced seat time and
 for other academic activities leading to the awarding of credit hours, such as laboratory work, studio
 work and other similar academic coursework.
- 2. Practica and internships require approximately 40 clock hours of documented work in the field along with other academic requirements for each credit hour awarded.
- 3. Courses that do not require classroom or direct faculty instruction as specified in paragraph (1) must meet at least one of the following criteria for credit hour consideration.
 - a. The course materials and rigor are equivalent to the face-to-face version of the course as determined by the department.
 - b. The course content and rigor have been evaluated and approved by the department and/or college and have been deemed eligible for the awarding of the designated number of credit hour units.

Departments and instructors are encouraged to use the Credit Hour Assumptions Worksheet when creating course curriculum to ensure time and work expected for learning outcomes is approximately equivalent to one of the criteria listed above.

Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) of 1974 was developed to protect the privacy of education records, establish the right of students to inspect and review their education records, and provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings.

Under FERPA, eligible students have the right to have access to education records, the right to seek to have the records amended when there is an inaccuracy (not for grade changes), the right to have control over the disclosure of personally identifiable information (PII) from the records (except in certain circumstances specified in the FERPA regulations), and the right to file a complaint with the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue SW, Washington, DC 20202-8520. The term "education record" is defined as those records that contain information directly related to a student and are maintained by an educational agency or institution or by a party acting for the agency or institution.

FERPA protects PII from being released without the student's consent except for school officials with a legitimate educational interest and other exceptions defined by the Act. School officials include employees of the University and persons, agencies, or organizations working in an official capacity on behalf of the University, including volunteers. Legitimate educational interest is defined as a need for PII by school officials in order to effectively complete the assigned duties of their or position or role with the University as determined by University managers of PII. Students may give consent for the University to release PII to third parties other than school officials and entities covered in the Act by completing the FERPA waiver in the student portal.

FERPA permits the University to release, without student consent, directory information. Directory information includes the student's name, address (including email), telephone number, date and place of birth, major field of study, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most previous educational agency or institution attended. Students have the right to restrict the institution from releasing directory information. If students choose to restrict such release, they need to activate a Directory Information Hold on the SAU student portal. Questions concerning the FERPA may be directed to: Office of Registration and Records, Spring Arbor University, 106 E. Main Street, Spring Arbor, MI 49283.

Students with Disabilities

The Academic Support Center (ASC) provides various equipment and services to aid students with disabilities, and the ASC staff is trained to personally help meet the needs of students. More information about services provided by ASC can be found on the University's website.

Title IX - Sexual Discrimination

Title IX protects people from discrimination based on sex in education programs or activities that receive federal financial assistance. Title IX states, "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance." Information about the University's Title IX grievance procedures can be found on the SAU website.

Alcohol, Tobacco, and Illegal Drug Use Policies

The U.S. Drug-Free Schools and Communities Act Amendment of 1989 provides that each institution of higher education receiving any form of federal financial assistance (including student loans or grants) must adopt a policy regarding the unlawful use, possession, or distribution of illicit drugs and alcohol by its students and employees and implement a prevention program. Information about these policies is found on the website.

Sexual Misconduct Policies

In accordance with federal regulations, the University has published policies related to sexual misconduct on the website.

Formal Complaints

Formal complaint policies and processes for issues other than grade appeal, student housing, or student accountability may found at https://www.arbor.edu/about-spring-arbor-university/complaint-resolutions/.

Copyright Policies

The U.S. copyright law (Title XVII, United States Code) governs the making of photocopies or other reproductions of copyrighted material. Under certain conditions specified in the law, libraries and archives are authorized to furnish a photocopy or other reproduction. One of these specified conditions is that the photocopy or reproduction is not to be "used for any purpose other than private study, scholarship, or research." If a user makes a request for or later uses a photocopy or reproduction for purposes in excess of "fair use," that user may be liable for copyright infringement. This institution reserves the right to refuse to accept a copying order if, in its judgment, fulfillment of the order would involve violation of copyright law.

Military Leave of Absence Policy Military Leave of Absence Eligibility

Only members of the U.S. military are eligible for leave of absence under this policy. Members of other countries' militaries are not eligible. Unless notice is precluded by military necessity, students will be eligible for consideration for a military leave of absence after submitting a Military Leave of Absence Request form to the SAU Office of the Registration and Records. If the student is unable to submit this form due to deployment time frames or security issues, an appropriate officer of the Armed Forces or an official of the Department of Defense may also notify the Office of Registration and Records in writing (registration.records@arbor.edu). Orders for military deployment or active duty service should accompany requests for a military leave of absence (scan and attach to email, or fax to 517-750-6534).

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Military Leave of Absence Regulations

A military leave of absence allows U.S. military personnel who are students at Spring Arbor University to be readmitted and resume studies in the same degree program in which they are enrolled at the time of the leave request, meaning they will not be responsible for completing new program requirements that may be implemented during the leave period. If curriculum has changed, suitable substitutions will be allowed. If the interrupted program has been discontinued during the leave of absence period, the institution will allow previous courses to substitute in an active program of study within the same discipline and within reason, according to discipline-related regulations and sound academic judgment.

Students granted a military leave of absence will be given a refund of tuition and fees paid out-of-pocket for any unfinished coursework during the semester in which their studies are interrupted. Any funds paid toward earned credit will not be refunded. If applicable, housing and meal plan refunds will be prorated for time remaining in the semester in which studies are interrupted. These refunds do not mean students will not owe the school any money for the semester, especially if the student took out federal loans to pay for their tuition and fees. Students requesting a military leave of absence from the University who received financial aid should contact the Office of Financial Aid to determine their financial responsibility to the University.

Students returning from military leave of absence will have guaranteed enrollment for the semester in which they return if the student is granted readmission under this policy (see readmission section below).

Military Leave of Absence Readmission

The cumulative length of the absence and all previous absences from the University for serving in the U.S. military cannot exceed five years, including the time the student spent performing military service and any recovery time for injuries sustained during military service. Veterans seeking admission to a different program are not eligible for readmission under this policy unless the original program of study is no longer offered at the University. If the program is no longer offered, the student must enroll in a replacement program or a program that is in the same field of study as the original program. Veterans who received a dishonorable or bad conduct discharge are not eligible for readmission under this policy.

Students qualify for leave-of-absence readmission after a period of at least 90 consecutive days serving in voluntary or involuntary active duty in the United States Armed Forces (including service by a member of the National Guard or Reserve on active duty, active duty for training, or full-time National Guard duty under federal authority). To be readmitted, students must submit 1) an application for readmission through the Office of Admissions, and 2) a Return from Military Leave of Absence form to the Office of Registration and Records no later than the admission application deadline for the upcoming term. Documentation of military separation or discharge must accompany the Return from Military Leave of Absence form via email attachment or fax to 517-750-6534. The registrar's office will notify the Office of Admissions of the student's intent to return under this policy.

Students who were not in academic, student conduct, or financial good standing with SAU before the leave of absence may not be readmitted. These situations will be considered on a case-by-case basis by the appropriate institutional administrator.

ADMISSIONS

(NOTE: Students applying to SAU Global degree-completion programs at sites, video conferencing, or online should refer to the SAU Global Admissions section of this catalog.)

The University admits students who are committed to personal, intellectual, and spiritual growth. Applicants must evidence appreciation for the standards and spirit of the University and exhibit moral character in harmony with its purpose. The University encourages applications from students who will contribute to and benefit from the Spring Arbor University Concept. Questions about admissions should be directed to the Office of Admissions at 800.968.0011 or email admissions@arbor.edu.

High School Course Expectations

Spring Arbor University offers a strong academic program that prepares students for graduate study and a variety of careers. Students entering the University should come prepared to take full advantage of the educational offerings by having the appropriate preparation during high school. The following list contains the minimum expected study applicants should acquire prior to entering Spring Arbor University. Applicants are encouraged to be prepared beyond these course recommendations: four years of college preparatory English courses; at least three years of mathematics courses including Geometry and Algebra I and II; at least three social science or history courses (such as American history, economics, geography, government, psychology, and world history); at least three lab science courses; physical education or other health-related courses. Additionally, students find that having two years of a foreign language and a computer science course also contribute to their success at SAU.

Admission Requirements

An application may be submitted by any high school student, high school graduate or equivalent, including students in attendance at another institution of higher education. Applications for admission will be sent upon request or may be found online by visiting www.arbor.edu/applynow. Anyone applying for financial aid should submit the Free Application for Federal Student Aid Form (FAFSA) by November 1 to receive maximum aid the following September.

Freshman Admission

Candidates for freshman admission must demonstrate a cumulative high school GPA of 3.0 or higher to be accepted for admission without the need to submit additional documentation. Students that are not able to demonstrate a GPA of 3.0 will be required to submit letters of recommendation and a personal statement.

Spring Arbor University will consider all relevant academic information in consideration of an application for admission. At any point, test scores may be submitted to supplement a student's application for admission to Spring Arbor University. If test scores are submitted, a composite ACT score of 20, a composite SAT score of 1020 (English Writing and Math), or a composite CLT score of 66 are considered minimum evidence for probable academic success at SAU. Test scores may be required of students that cannot demonstrate a high school GPA of 3.0.

Applications for admissions can be found online or at the Office of Admissions. The following documents should be sent to the Office of Admissions after application is made.

- An official high school transcript
- A recommendation letter and personal statement (applicants with high school GPA lower than 3.0)
- ACT, SAT, or CLT scores sent directly from the testing service (optional)

Freshman applicants submitting scores from the General Educational Development (GED) test must have an average standard score of 500 for regular admission.

Transfer Student Admission

A combined GPA of at least 2.0 from all institutions of higher education attended is recommended. Applicants with a combined GPA less than 2.0 may be admitted on probation. Official transcripts from all institutions of higher education previously attended should be sent to the Office of Admissions directly from other institutions.

Accepted transfer students entering the junior year will be given a writing assessment to determine writing proficiency and possible course placement.

Reapplying to SAU

Applicants who have previously applied to Spring Arbor University but have never attended should complete the Application to Reapply form available at www.arbor.edu/applynow.

Readmission

Former Spring Arbor University students who have withdrawn for one or more semesters must submit the brief application for readmission. Official transcripts from all institutions attended during the separation from SAU should be sent directly to the Office of Admissions. The readmitted student must meet the graduation and academic program requirements in effect at the time of readmission.

Transition Students

Students who have attended or are currently attending a Spring Arbor University in a program offered in a location apart from the main campus and wish to become a main campus student should complete the transition admission application form.

Part-time or Non-Degree Seeking

Part-time or non-degree seeking enrollees should submit the part-time registration form to the Office of Registration and Records. The form is available online at

https://mysau3.arbor.edu/ICS/icsfs/Part_Time_Registration_Form.pdf?target=da9948db-0e59-4f3f-9607-6a718dd5d55f

High School Dual Enrollees

High school students with junior or senior standing and a cumulative GPA of 3.2 or minimum ACT score of 21 or SAT score of 1060-1090 may apply to take lower-level classes numbered between 100 and 299 at Spring Arbor University. High school transcripts are required for admission, and test scores, if available, are preferred. A dual enrollment form including a signature from a high school counselor and parent must be completed and submitted to the SAU admissions office. Upper-level courses are not permitted for dual enrollees except under special circumstances. The applicant must submit a written request for this exception to the admissions office along with documentation that supports the applicant's preparedness for the challenges of upper-level college academic rigor. The admissions office will forward this request to the registrar to review, and the registrar will communicate with admissions the decision within a reasonable amount of time.

Homeschooled Students Admission

Applications from individuals who have completed their high school studies in a homeschool setting are welcome and encouraged. Homeschooled applicants should follow the process of freshman or transfer applicants as outlined above. In place of the counselor's form, a letter of recommendation should be submitted by the parent responsible for the majority of instruction. More information for homeschool families is available online at https://www.arbor.edu/admissions/undergraduate/homeschooled-students.

Admission Deposit

A \$200 deposit for resident students (\$50 for commuting students) is due May 1. The deposit is nonrefundable after May 1 for the fall semester, and after December 1 for the interim and spring semesters.

Types of Admission

After review of the applicant's materials, an admission decision will be made based on the following definitions.

Regular Admission

An applicant who meets all requirements and submitted all paperwork may be granted regular admission.

Probationary Admission

Applicants who are not able to meet the stated admission standards may be admitted on probation. Applicants who are admitted on probation are guided carefully in course selection and are given individual academic assistance from the Academic Support Center (ASC) during their first year. Certain support courses may be required based on individual preparedness, which is assessed by the institution. These courses will count toward electives in the degree program.

Conditional Admission

An applicant who is accepted but is missing a required document for admission.

Denied Admission

An applicant who fails to meet the academic requirements or social expectations and is not granted probationary admission.

International Student Admission

International students may complete the International Application for Admission online (arbor.edu/international) or request an international admission packet from the Admissions Office. Fully online programs are not eligible for F-1 visa status.

International Financial Forms

The student must complete the Affidavit of Support which indicates the amount of funds the student, family, and sponsors can contribute toward the educational costs. The Application for International Student Financial Aid must also be submitted to apply for need-based financial aid.

International Costs and Financial Aid

For current costs and financial aid applications for international students, please go to our website at https://www.arbor.edu/international and look under *Financial Aid and Scholarships*.

Letters of Recommendation for International Applicants

Letters of recommendation from two of the following: teacher, counselor, minister, or coach.

International Transfer Credit Evaluation

Official documents of all coursework completed outside the U.S. and Canada (except at schools with an American-based curriculum) must be submitted to a recognized evaluation service for validation and equivalency of courses and/or degree. We recommend World Education Services (WES) at https://www.wes.org/. Using the WES ICAP option will allow WES to mail the evaluation and an official copy of each transcript to Spring Arbor University. If transcript(s) have already been authenticated and evaluated by another evaluation service within the U.S., please contact the Office of Registration and Records to determine if that service is acceptable.

English Language Proficiency Requirement

Non-U.S. citizen, international applicants from countries where English is not the primary language must possess written and oral proficiency in the English language using one of the methods below.

Method 1: Language Proficiency Testing

Scores listed below are the minimum scores required which must be within two years of application to SAU.

Test	Test Type	Score	Notes
TOEFL	iBT	79	No sub-score lower than 17
TOEFL	PBT	550	No sub-score lower than 52, writing score 4
IELTS		6.5	No band score lower than 6.0
MET		64	Section score of 59 or higher
ACT/SAT			Same minimum scores as native English speakers

Method 2: Education

Applicants can provide official transcripts and an international transcript evaluation reflecting the completion of a degree earned at a high school or at an institution of higher education in a primarily English-speaking country at an institution where English is the primary language of instruction. Study must have been completed within the immediate five years preceding admission to SAU.

Method 3: Residency

Applicants can provide evidence of a minimum of two years of residence within the last five years in a primarily English-speaking country. Evidence can include travel documents, visas, employment contracts, etc. Documents must reflect the comprehensive dates of residency.

Regular International Student Admission

Regular international student admission allows students to enroll for a full academic course load with no ESL classes required. Students must earn minimum scores and sub-scores as indicated on the following English language proficiency test chart to be admitted on regular admission.

ESL Probationary Admission

English as a Second Language probationary admission is for students who are not proficient in the English language according to the chart above. This admission status enables students to enroll as a full-time student in college-level courses, including ESL classes, during the first and second semesters. Twelve credit hours is required for students with F-1 status. Selection of ESL classes will be based on placement tests, subscores or total scores achieved on the English proficiency tests or SAT or ACT Reading and English/Writing sub-scores. ESL courses are available for academic credit and are calculated into the grade point average. Students must earn minimum scores/sub-scores as indicated on the chart below for probation admission.

Test	Test Type	Score	Notes
TOEFL	iBT	69	No sub-score lower than 15
TOEFL	PBT	525	No sub-score lower than 50, writing score 3
IELTS		6.0	No band score lower than 5.5
MET		62	Section scores no lower than 55

English Language Proficiency Tests

For further information about English language proficiency tests, please access the following websites:

- Test of English as a Foreign Language (TOEFL) www.toefl.org. Use code 1732 to send scores to SAU.
- International English Language Testing System (IELTS) https://www.ielts.org/. Include on the form the address: Spring Arbor University Office of Admissions, 106 E. Main Street Spring Arbor, MI 49283.
- Michigan Language Assessment (MET) https://michiganassessment.org/michigan-tests/met/

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Financial Aid

For information about financial aid at SAU, please refer to the SAU website at www.arbor.edu/financialaid.

Financial Aid Satisfactory Academic Progress (SAP)

State and federal regulations require Spring Arbor University to establish specific standards of Satisfactory Academic Progress (SAP) for students to maintain eligibility for state and federal Title IV student financial assistance programs. The Satisfactory Academic Progress Standards are further explained under Academic Status in Registration Policies. The chart below specifies the SAP requirements for all current undergraduate students regardless of the catalog year under which a student may have matriculated to SAU.

Attempted Credit Hours		16-24	25-36	37-47	48+
Minimum Required GPA		1.7	1.8	1.9	2.0
Minimum Completion Ratio	50%	67%	67%	67%	67%
(earned credits divided by attempted credits)					
Maximum Total Credits Allowed to Complete Degree For associate's degrees = 93					
(150% of the program length)	For bachelor's degrees = 180				

Attempted Credit Hours in SAP Calculations

All courses attempted at SAU and transfer credits that count toward a student's degree are counted as credits attempted regardless of the grade assigned. Only courses with final grades issued and considered passing are counted as credits earned. All credits for repeated courses are counted as attempted credits and, if passed, as earned credits. Incomplete courses are counted as attempted credits but not as earned credits. Withdrawn courses with a grade of "W" are counted as attempted but are not calculated in the completion ratio or GPA. Withdrawn courses with a grade of "UW" calculate the same as a grade of "U."

Veteran Benefits

Veteran benefits are coordinated through the Office of Registration and Records in cooperation with the Financial Aid office. All questions concerning benefit eligibility and payment should be directed to the VA at 1-888-442-4551. Veterans apply for veterans' educational benefits online through the Veterans Benefits Administration (VA) online application (VONAPP) at www.gibill.va.gov. The student may call the VA if they have questions regarding the application at 1-888-442-4551.

A copy of the Certificate of Eligibility (COE) will be mailed to the student by the VA. The COE is required before the student can be certified for benefits by the certification officer in the Office of Registration and Records. Students receiving veteran benefits are subject to all academic policies of the University as outlined in this catalog and student handbooks. Students eligible to receive benefits from the Veterans Benefits Administration should verify records are correct before the beginning of each term of attendance. For students receiving benefits to remain in good standing, the following items should be noted:

- 1. Benefits will not be paid for courses that are not graded A, A-, B+, B, B-, C+, C, C-, D+, D, D-, U, or S. In addition, a course cannot be audited and counted toward benefit hours. Any incomplete grade must be converted to a regular grade within six weeks.
- 2. Courses for which the student registers must be applicable to program and degree requirements. Extra non-required courses taken beyond the 120 hours needed to graduate will not be certified for benefits. Up to 12 hours beyond the 120 can be certified only if they are required, and if the student has not previously taken courses that did not apply toward the student's program. The addition of an extra major or program requiring more than 120 total hours cannot be certified without the student securing approval for a change of program from the Veterans Administration.

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- 3. SAU policy dictates that a student accumulating more than 12 hours of failing grades ("U") will no longer be certified by SAU, and therefore, will be ineligible to receive any future Veterans benefits at SAU.
- 4. The Office of Registration and Records maintains all veteran records, including degree requirements, courses taken and grades. Grades are posted to the student's record at the end of each academic session. The University catalog lists all degree requirements. Each student's progress is monitored by the Office of Registration and Records.
- 5. Credit for previous training may be granted based upon academic evaluation of records.
- 6. Academic Probation: If a student receiving veteran benefits falls below a 2.00 cumulative GPA in any semester, that student is placed on academic probation according to the Veterans Benefits Administration. The student is permitted two consecutive semesters on this status. If the student fails to raise the cumulative GPA to 2.00 or above at the close of the second semester, that student will no longer be entitled to veteran benefits.
- 7. Spring Arbor University is a Christian university dedicated to fostering academic, social, and spiritual growth for students. While enrolled as active participants in the Spring Arbor University community, students are expected to govern their lives in harmony with its regulations, both on and off campus. The student handbook fully outlines standards of conduct, which reflect the ideals of the Spring Arbor University Concept. Because of connotations or associations that do not contribute to the Spring Arbor University Concept, using alcoholic beverages, illegal non-prescription drugs, or tobacco is prohibited.

Tuition, Fees and Expenses

Information about tuition, fees and expenses can be found on the University's website at https://www.arbor.edu/admissions/financial-aid/costs/.

Terms of Payment and Payment Plans

Information about terms of payment and payment plans can be found on the University's website at https://www.arbor.edu/about/offices-and-schools/student-financial-services/student-financial-services-fag/.

Tuition Refund Policies

Tuition refunds for properly authorized withdrawals shall be based upon the following refund schedule. Registration changes may result in additional charges based on the applied tuition refund schedule. Students should contact the business office and financial aid to determine the financial ramifications before making registration changes.

Calendar Days 1-7* 100% refund
Through 25% of class
Through 60% of class
After 60% of class
No refund

Unpaid Student Accounts

Students who are delinquent in the settlement of any of their accounts with the University or who have not arranged an approved payment plan forfeit all University privileges including but not limited to room and board, class attendance, and access to the SAU Network. Students whose accounts are not paid in full are not issued transcripts or permitted to register for a new semester. A monthly service charge will be added to any unpaid balance in the student account. Failure to meet financial obligations may result in the referral of the delinquent account for collection to an outside agency.

^{*}Classes with duration of less than 14 days will be refunded on a prorated basis.

If a withdrawing student or the student's parent is convinced the withdrawal is the result of circumstances warranting exceptions from published refund policies and does not believe the request to the Business Office for exception has been satisfactorily considered, a written appeal may be submitted to the registrar within 60 days of the withdrawal date. The registrar, along with registrar-selected representatives from informed student support areas on campus, if necessary, will consider the written appeal to determine if a change of withdrawal date is merited based on attendance records and engagement in educational activities. The registrar will communicate a decision to the student in writing within 30 days of the receipt of the written appeal. The decision of the registrar is final.

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Transcripts

Official transcripts are issued by the Office of Registration and Records and bear the University seal and registrar's signature. Ordering information and payment is accepted online and status emails will be sent for the requestor to track the ordering process. Transcripts will not be issued until all financial obligations to the University have been cleared. The charge for transcripts is listed on the website where the order is requested. To order official transcripts, visit https://www.arbor.edu/resources/offices/registration-and-records/request-a-transcript/.

Transfer Policies

Spring Arbor University considers coursework for transfer only after receiving an official transcript from the sending institution. An unofficial transfer evaluation may take place using unofficial transcripts, but no credit will be transferred until official transcripts are received. A transcript is official only as designated by the sending institution and sent directly from that sending institution to SAU. Hand-delivered transcripts will not be accepted as official. International transfer credit must be evaluated by an international credit evaluation service such as World Education Services at https://www.wes.org/.

SAU defines transfer credit as college-level coursework earned from degree-granting colleges or universities holding regional accreditation or candidacy status or accredited by organizations recognized by the Council for Higher Education Accreditation (CHEA) or the Department of Education. Courses must be comparable to the quality and nature of courses offered at SAU. Courses that do not meet transfer criteria may be considered on a case-by-case basis only when written evidence is provided that the coursework meets standards related to length of course, appropriate credentialed faculty, course content, learning outcomes, and other factors normally found at accredited institutions. The registrar's office, in consultation with the University's academic departments, determine transfer credit.

Credit accepted for transfer will be recorded as semester credit hours on the student's Spring Arbor University transcript. Quarter hours will be converted to semester hours by multiplying by .66. Trimester hours will be converted by multiplying by .83. Clock hours will be converted from 37.5 to 1 credit hour. The transfer GPA is not calculated into SAU cumulative GPA. Other institutional GPA may be combined with the SAU GPA to be used as criteria for determining certain academic eligibilities, such as scholarships.

Students who have matriculated to SAU and wish to take coursework elsewhere with the intent on transferring the credit back to SAU should obtain transfer authorization from the SAU Office of Registration and Records prior to taking the course. Students who fail to obtain transfer authorization before enrolling at another institution run the risk of credits not applying to SAU requirements.

Up to 80 community college semester credit hours can be transferred to apply to undergraduate programs. After students have earned 80 credit hours from a community college, no additional coursework may be transferred from a community college. A maximum of 40 semester hours of technical credit may be transferred to apply toward a main campus academic program. A maximum of 90 credits can be transferred from a four-year institution. Only courses that apply to the SAU degree program will be transferred, including elective courses.

Transfer credit for military experience will be accepted if the student's Joint Services Transcript is received from the DODED. If for some reason transcripts are not available, the Office of Registration and Records may evaluate a DD214. A maximum of two MOS's (Military Occupational Specialty) are used in generating military credit, and each must have been held for at least one year. The DD214 should have a complete summary of activity while serving, or copies of certificates verifying course completion will be accepted. ACE recommendations are used in awarding credit for military experience.

Coursework with grades below "C" (2.0) will not be accepted for transfer. Courses graded with letters other

than the standard letters "A"-"C," such as "P" or "S," will transfer only if the sending institution's transcript key states that the grade is equivalent to at least a 2.0. (Special consideration will be given to grades issued in Spring and Fall 2020 due to the higher education industry-wide response to the COVID-19 pandemic.) Courses below college level will not transfer, even if they are counted for credit at the sending institution.

Spring Arbor University is a signatory member in the Michigan Transfer Agreement (MTA) as a receiving institution. The intent of the MTA is to ensure that a student who completes an associate's degree at a sending institution will have satisfied the basic General Education requirements at a receiving institution. "MTA Agreement Satisfied" must be stamped on the sending institution's transcript, verifying the student has met the terms of the agreement. ENG 104 College Writing is required to be taken at SAU if the equivalent is not taken at the sending institution. Transcripts before 2019 stamped "MACRAO" will be considered the same as the MTA.

A student who has not met the MTA Agreement requirements upon transfer is subject to all current Spring Arbor University academic requirements at the time of matriculation. A student may inquire with the sending MTA institution to determine if reverse transfer from SAU for the MTA to be issued is possible. If the sending institution approves, the student must complete the MTA within two semesters after initial matriculation to SAU.

The MTA may apply to out-of-state students with an earned Associate of Arts or Associate of Science degree if requirements of the MTA have been met in their degree program as determined by the SAU Office of Registration and Records.

Regardless of the number of credit hours transferred, all requirements must be satisfied for a degree to be conferred, including all General Education, program, and graduation requirements.

Extra-institutional Learning for Credit

Spring Arbor University accepts credit from a variety of extra-institutional sources: credit by exam, American Council on Education (ACE) recommended courses, and prior learning assessment through life learning or professional training. Up to 60 credit hours of bachelor's degrees and up to 30 credit hours of associate's degrees may be satisfied by a combination of extra-institutional credits. Other credit hour limitations are specified in each method of extra-institutional learning listed below.

Credit by Examination

Spring Arbor University accepts credit from the examinations listed below and/or that are recommended by ACE or NCCRS. Exams must be taken prior to enrolling in a higher-level course in that discipline. Students will not be given credit for an exam for a course in which they are currently enrolled or have previously taken at college level. Students must request official scores be sent from the testing agency to the SAU Office of Registration and Records. Up to 33% of total credit hours comprising an academic degree or program may be earned through credit-by-exam.

- College Board Advanced Placement Examinations (AP)
- College Board's College-Level Examination Program (CLEP)
- DSST by Prometric (DSST)
- International Baccalaureate (IB); grade score of 5 at HL level

The list of AP, CLEP, and DSST tests with corresponding ACE recommended scores required for acceptance at SAU can be found at this link: https://www.arbor.edu/academics/ap-clep-and-dsst-credit-transfers/.

ACE Recommended Courses

Courses taken through non-accredited delivery methods, such as Study.com, Sophia.com, or Straighterline.com, must be recommended by ACE at the time the student took the courses. Students must have ACE transcripts sent directly to the Office of Registration and Records at SAU. Grades must reflect a grade of "C" or better for the

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credit to transfer. Up to 33% of total credit hours comprising an academic degree or program may be earned through ACE recommended courses.

Prior Learning Assessment for Life Learning and Professional Training

Students may be granted credit for significant life learning and/or professional training not sponsored by a college or university through a process called prior learning assessment. Prior learning assessment requires extensive preparation and is primarily beneficial to the more mature student who is returning to college after having had significant life experiences and work outside of a college. However, prior learning assessment is open to all SAU students who can demonstrate college-level learning through post-secondary life and work experiences. Personnel in the Office of Registration and Records oversee the prior learning assessment and provide workshops for life-learning papers. Faculty evaluators determine credits awarded for prior learning.

Some training experiences and professional learning may be eligible to meet General Education or elective requirements. Generally, a training experience or group of related training experiences must contain at least 30 training hours to be evaluated. Training courses are considered related if they are in the same academic discipline.

Prior learning credit awarded is based on demonstrated college-level learning with consideration given to contact hours, subject matter content, and mastery of pertinent materials. Credit is not awarded for experience or professional work, and prior learning assessment credit cannot be used to meet requirements of a certificate program. The credit earned may be upper or lower level, technical or non-technical. A limit of 30 credit hours can be granted for prior learning for bachelor's degrees and 15 for associate's degrees. Prior learning assessment credit is not available for certificate programs. There is a prior learning assessment fee which is based on the number of credit hours for which a student requests to be assessed, not the credit hours issued by the faculty evaluator.

Advising and Academic Plans

A faculty and/or student success advisor will be assigned according to the student's choice of major. Advisors will assist students with creating and maintaining an academic plan to meet their educational goals throughout their academic career at SAU. While Spring Arbor University advisors aid in academic planning, students are responsible for the completion of a program and should be familiar with the program requirements listed in this catalog, and they must be aware of changes to course offerings that may impact their academic plan. Students should take the initiative for requesting academic advising assistance. All advisors and the Office of Registration and Records can assist students with academic planning.

Main campus students may use the Academic Schedule Planner in the MySAU portal to create a plan for taking all the required program courses to complete their degree in a timely manner. Once the plan is approved by an academic advisor and registration is open, students register using the planner.

Additionally, a student success advisor (SSA) is assigned to main campus students to assist in college life by proactively engaging students in their academic progress and helping them with resources they might need to succeed, specifically as it related to academic success. SSAs usually act as the academic advisor for the freshman and sophomore year and for the first year for a transfer student.

Auditing a Course

No credit is received when a course is audited. Full-time students may audit 3 credit hours per semester on a space-available basis, and part-time students must pay the per-credit-hour fee. All students auditing a course must pay the course fee if one is charged. An audit student must meet the attendance policy of the course for it to be recorded on the transcript. Audited courses cannot be changed to credit. The student will not be required to complete assignments and exams unless the instructor requests that assignments be completed as a necessary part of attending the course. The instructor is not obligated to correct

assignments submitted by an audit student unless the instructor has requested the student to complete them. Audited courses are not eligible for financial aid, and the following courses may not be audited: studio art courses, applied music lessons, and specific skill courses.

Online Courses

Online courses available for registration can be seen in the Academic Schedule Planner on the MySAU portal. Students should consult with their advisor for assistance in course selection and information about eligibility to enroll in courses. Registration for online courses closes at least two weeks prior to the course start date unless otherwise publicized by the Office of Registration and Records. Online courses may be canceled by the University at any time due to low enrollment.

Students enrolled in main campus academic programs are limited to registering for one online course per fall and spring semester. To request an exception to this policy, students may file a petition form with the Office of Registration and Records, but consideration will be given to only those students with very compelling reasons and support from their faculty or academic advisor. The registrar has final authority to grant or deny a petition for online course registration. Students will be registered manually for these additional online courses by the Office of Registration and Records and not through the registration system.

Financial aid may not be available for online courses scheduled outside the program's financial aid calendar dates. For example, main campus program calendars do not have summer included. Therefore, students in main campus programs may not be eligible to receive financial aid for courses taken during the summer.

Repeat Courses

Students may register to repeat a course at SAU if the student failed to earn the minimum grade required for the course or academic program or if the student wishes to improve GPA. The highest grade of all attempts of the repeated course will be used in GPA calculations in the semester when the highest grade is earned. GPA for all other semesters will remain the same. Credit hours for only one attempt with a grade higher than "U" will be calculated into the earned credit hour count. All attempts of the course remain a part of the student's permanent academic record regardless of the number of attempts. Students may receive financial aid only once for a previously passed course.

A course in which a student receives a grade of "U" may be repeated twice at SAU. The fourth attempt and beyond must be completed at another institution. Students wishing to repeat a course at another institution should receive transfer approval from the Office of Registration and Records prior to taking the course. Without prior approval, transfer cannot be guaranteed. The GPA is not affected by transfer courses. Athletes should consult with their coach before registering for a repeated course due to a possible impact on athletic eligibility.

Satisfactory/Unsatisfactory Grades

To encourage students to explore courses in disciplines in other majors but where competition with majors in that area discourages taking the course, juniors and seniors may take one elective course each semester on a satisfactory/unsatisfactory basis not already graded "S"/"U." No courses required for graduation may be taken "S"/"U" outside of regular course grading policies. Students must indicate to the Office of Registration and Records, not to the instructor, a desire to take the course on the "S"/"U" basis no later than the end of the fifth week of the semester or by the end of the first week of interim or summer sessions. The option may not be changed back to graded once the registration has been changed. Only the equivalent of a grade of "C" or above earns an "S" grade.

Courses Requiring Individualized Registration

The following types of courses require special forms for individualized registration. More information about

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these courses can be found in the Course Information section of the catalog.

Tutorial Course

A student may request a catalog course as a tutorial if a schedule conflict prevents taking the regularly scheduled section during an academic career. It is recommended that a total of no more than two courses be tutored. Each credit hour includes at least five clock hours of meeting time with the tutorial instructor. An additional fee is charged. Tutorial courses are intended for courses required in a program. Tutorial electives are typically not approved. A tutorial must be approved before work begins.

Independent Study/Internship/Practicum/Field Experience Courses

See Course Information.

Adding/Dropping Classes

Any changes to registration may impact the student's financial aid and student account. Students should consult with financial aid and billing before deciding to change registration.

Main Campus Class Add/Drop

Course changes for semester-long courses (drops and adds) may be made during the authorized period at the beginning of each session as specified by the Office of Registration and Records and published on the academic calendar. After the authorized drop/add period, a student who wishes to drop or add a class must secure the signature of the instructor, the student's advisor and the registrar. A late add fee is charged unless there are extenuating circumstances.

Modular and Online Class Add/Drop

Online or modular classes may be added up to two weeks prior to the class start date. Students may petition to add one of these types of classes after the allowed add period, but only extreme circumstances will be considered by the registrar. Students have until no later than the seventh calendar day of an online course to voluntarily drop from a course without financial penalty (e.g., the course starts on Monday, so the seventh day is Sunday). An email must be generated from the student's SAU email account to their advisor on or before the drop period expires. A course dropped on or before the seventh calendar day also will not appear on a student's transcript. After that date, students have until 60% of the course to voluntarily withdrawal. A withdrawal results in a "W" on the academic record and may result in a partial refund on tuition. Withdrawing from a course after the designated withdrawal period deadline will result in a "UW" on the academic record.

Withdrawal from a Course

After the authorized drop/add period, a student may withdraw from a course with a grade of "W" through the 60% of the course. The last date to withdraw from semester-long classes is published on the academic calendar found in the portal. Students may petition to be withdrawn after the authorized withdrawal date, but such a petition will be granted by the registrar only for extreme circumstances.

Before or at 60% of the total days of the course, students who request a withdrawal or who are administratively withdrawn will receive a grade of "W," which is not calculated into the GPA. Any withdrawals after the 60% of the course will receive a grade of "UW," which calculates into the GPA as "U". The withdrawal date is defined as the earliest date of one of the following:

- 1. The last date of the student's recorded attendance or participation if the student is administratively withdrawn or is withdrawn for non-attendance.
- 2. The date the student officially withdraws in writing with the Office of Registration and Records.

Withdrawal from the University Voluntary, Official Withdrawal

A student who wishes to withdraw voluntarily and officially from the University during a semester must submit an official request. Campus students should obtain a withdrawal form from student development, and after obtaining required signatures, submit the form to the Office of Registration and Records. Student in online or modular programs should work through their academic advisor. The student is responsible for all remaining financial obligations. Grades and refunds will follow the withdrawal date policy listed above.

Administrative Disciplinary Withdrawal

If a student is withdrawn by the University for disciplinary reasons, grades of "W" will be recorded on the transcript for courses in which the student is enrolled at the time of dismissal, and the regular refund policy will apply.

Administrative Withdrawal for Nonparticipation

An instructor of semester-long, synchronous courses may request an administrative withdrawal of a student who misses more than six consecutive scheduled meetings without a valid excuse (illness, athletics, or other issues). For classes that meet less than a full semester may allow fewer absences. The policy is intended where there is evidence that a student has stopped attending but has not formally withdrawn. Similarly, students who stop attending all classes may be withdrawn from the University through administrative action. The University especially monitors attendance for students who are on academic probation, and non-class attendance may mean the termination of the probationary status and immediate dismissal. The registrar approves all administrative withdrawals for non-attendance. Return of tuition or other federal funds is based on the policy cited elsewhere in this catalog.

A student registered in an online or asynchronous course who ceases to actively participate for 14 consecutive days may be administratively withdrawn from the course. Any potential tuition refund will be based on the last date of attendance as determined by the Office of Registration and Records.

Students in synchronous, accelerated courses may be administratively withdrawn upon two absences in one course or upon five absences in the program, excluding courses that do not count toward the major.

Generally, an administrative withdrawal will not be approved after the last day to withdraw from a course; however, if it is approved after the last day to withdraw, a "UW" will reflect on the student's academic record, which calculates the same as a "U" in the GPA. Academic programs may have requirements beyond those outlined in this policy for which a student will be accountable.

Commencement Information

Students are eligible to participate in the scheduled Commencement ceremony immediately following the completion of all degree and graduation requirements. Requirements must be completed by the published deadlines of the institution and program. Students must be cleared for participation by the Office of Registration and Records.

If students are unable to participate the Commencement ceremony for which they are cleared, they may submit a written petition to the Office of Registration and Records no later than three weeks prior to the Commencement ceremony requesting participation in the next Commencement. Petitions must include documented evidence of the reason for the inability to participate in the approved ceremony. Petitions received after the deadline will not be considered, and students will not be permitted to participate in a subsequent ceremony.

If students experience dire emergencies after the three-week petition deadline, such as a serious illness or death of an immediate family member or grandparent, permission may be granted for participation in the next scheduled Commencement ceremony. The student must petition the Office of Registration and

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Records as early as possible and include documentation of the emergency. Petitions do not guarantee permission for participation in a subsequent ceremony.

Main Campus Student Commencement Information

Main campus undergraduate students may petition to participate in spring Commencement ceremony early if they are within 8 credit hours of completing all requirements by the end of the summer immediately following Commencement. Petition forms are available in the Office of Registration and Records and must be submitted by February 1. Documentation of summer registration or a plan for completing the 8 credit hours should be submitted with the petition. The granting of petitions is not guaranteed.

Main campus students who will complete graduation requirements at the end of fall semester may participate in the fall Commencement ceremony but are encouraged to wait until the subsequent spring ceremony so they may benefit from the ivy cutting ceremony and the baccalaureate service.

If students are cleared to participate or participate in Commencement early, for fall or spring ceremonies, and they fail to meet graduation and/or degree requirements subsequent to the ceremony for which they are cleared to participate, they are not eligible to participate in a future Commencement.

Degrees will not be conferred for students who are granted early Commencement participation until all degree and graduation requirements are completed, and those students will not receive a diploma until after the degree is conferred.

SAU Global Student Commencement Information

Early participation in Commencement is not permitted for students enrolled in programs identified by the University as Global programs, which are accelerated and offered in locations other than main SAU campus. Students in Global programs must complete all degree and graduation requirements prior to participation in Commencement.

Diploma Application

All candidates for a degree must file a diploma application with the Office of Registration and Records. To participate in Commencement, applications must be submitted by August 30 for fall Commencement or February 1 for spring Commencement of the academic year during which students plan to complete all program and graduation requirements.

Graduation Requirements

Students are subject to the curriculum requirements in the catalog effective at the time they matriculate in an academic program at Spring Arbor University. When a student is not enrolled for two consecutive semesters and is later readmitted, the student must meet current graduation requirements as listed in the effective catalog at the point of readmission. Students may petition the Office of Registration and Records to use requirements from a previous catalog, but approval of this request is not guaranteed. While students are subject to the requirements of the catalog under which they matriculated, the administration reserves the right to change academic policies and curriculum at any time without notice.

Associate's Degree Graduation Requirements

Spring Arbor University confers upon students an associate degree upon completion of all academic program and graduation requirements. Program requirements are listed in the respective sections of this catalog. An associate's degree may not be earned concurrently with a bachelor's degree. To earn a bachelor's degree later, students with an associate's degree from Spring Arbor University must apply for readmission to the University. The following graduation requirements apply to all associate's degree programs and must be met before a student graduates. For an associate's degree to be conferred, students must meet the following requirements.

- 1. Complete a minimum of 30 semester credit hours at Spring Arbor University. Regardless of the total number of hours taken at Spring Arbor University, at least 10 of the last 20 hours earned toward the degree must be taken at Spring Arbor University.
- 2. Earn a cumulative GPA of "C" (2.00) is required for graduation with an associate's degree.
- 3. Students in an associate's degree program are subject to all other academic policies as listed in this catalog, such as grading, class load, class attendance, academic probation, dismissal, etc.

Bachelor's Degree Graduation Requirements

The University confers upon students a bachelor's degree upon completion of all academic program and graduation requirements. Program requirements are listed in the respective sections of this catalog. The following graduation requirements apply to all bachelor's degree programs and must be met before a student graduates. For a bachelor's degree to be conferred, the following requirements must be satisfied.

- Students must earn at least 120 college-level semester credit hours. Depending upon the choice of major, minor, concentration or endorsement, a student could accumulate more than 120 credit hours at the time of graduation.
- 2. Students must attain a final cumulative SAU GPA of "C" (2.00). Transfer GPA is not calculated into the SAU cumulative GPA.
- 3. Students must earn a 2.20 GPA average for courses that count toward the major, including transfer courses. A 2.00 average must be maintained in a minor, concentration or endorsement, including transfer courses. (See program sections for possible additional GPA requirements.)
- 4. Students must successfully complete 36 credit hours in upper-level courses (numbered 300 and above).
- Students must complete at least 30 semester credit hours in courses at Spring Arbor University.
 Regardless of the total number of hours taken at Spring Arbor University, at least 15 of the last 30 hours earned toward the degree must be taken at Spring Arbor University.
- 6. Students must complete program requirements and minimum number of credit hours as specified by the catalog under which the student matriculated to SAU. Majors will have a minimum of 30 credit hours, or 36 credit hours for group interdisciplinary majors. (See specific majors for number of hours required.) Students should consult the program section of the catalog and their academic advisor to determine whether a minor is required for their degree program. A minor has a minimum of 18 hours or 24 hours for a group (interdisciplinary) minor. A maximum of two courses may meet requirements for both a major and a minor or two minors. No courses may be duplicated in any major/minor areas for students who are certifying to teach.
- 7. Students must complete 9 credit hours in one major field in courses at Spring Arbor University, not including practicum, internships, and field experiences. See individual majors for additional requirements.
- 8. Students must complete the University's specified General Education program.
- 9. Students must attend Commencement for the conferring of the degree. Requests to graduate in absentia may be made to the Office of Registration and Records.

Double Major Graduation Requirements

A double major consists of course requirements from two different academic programs that lead to the same degree (e.g., Bachelor of Arts). Students desiring a double major must meet the following requirements.

- 1. Have a 2.5 cumulative GPA from high school or previous college work at the time of petition.
- Meet with department chairs (or designees) from both major departments to determine which courses
 in their respective academic programs will best fit with the planned course rotation and the student's
 future career goals. Most majors will require the completion of requirements for both programs.

In addition to graduation requirements listed under Bachelor's Degrees above, students must complete 30 credit hours in both majors, 18 of which must be upper level (300 or above). The minimum 30 credit hours

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may include required support courses and prerequisites. Overlapping courses may count as fulfilling credit hours in each major, but each department must approve overlapping courses. Each department chair is responsible for determining, on a case-by-case basis the courses that will be included in the department's major according to the preceding specifications.

A student may not graduate with one major and then seek a second major after a degree is conferred. Students may, however, seek a second degree (see "Second Bachelor's Degree"). A student with a double major may graduate upon completion of all requirements for both majors. Both majors will be listed on the SAU transcript. Double majors will not receive two diplomas. If double major students decide to abandon one of the majors, they will need to complete a Declaration of Major form to remove the second major.

For financial aid purposes, the double major curriculum, including required support and General Education courses, should not total more than 180 credit hours (150% of a bachelor's degree program at SAU).

Second Bachelor's Degree Graduation Requirements

Students seeking a second bachelor's degree must meet all admissions and graduation requirements of a first-time degree-seeking student. To be eligible for a second bachelor's degree, students must meet the following requirements.

- Completed a bachelor's degree from a regionally-accredited college or university prior to application for admission for the second bachelor's degree (official transcripts will be required as verification), or be working simultaneously on two degrees at SAU, which will be completed with no more than 180 credit hours (150% of the number of credit hours required for graduation with a bachelor's degree from SAU). NOTE: the financial aid office should be consulted to determine eligibility for the second degree.
- 2. Choose a second bachelor's degree program that has at least 30 non-overlapping and distinct credit hours from the first degree program. Twenty of the 30 credit hours must be upper level (300-400).

In addition to graduation requirements listed under Bachelor's Degrees above, students must complete all required courses of both degree programs as listed in the catalog under which they matriculate to the respective programs. If students complete a first bachelor's degree before matriculating into second bachelor's degree at SAU, they must complete any program prerequisite or required support courses that were not completed in the first degree program. Additionally, because biblical literacy is foundational to a Spring Arbor University education, COR 300 or 310 will be required unless one of these was completed in the first degree program. A survey Bible course taken at a Christian institution may substitute for COR 300 or 310 upon approval of the registrar.

Individualized Major Graduation Requirements

A student may plan an academic major different from any current major in the catalog with the approval of the advisor, appropriate department chairs, and the registrar. Such programs could include a combination of on-campus and off-campus courses, independent studies, and work at other institutions. All individualized majors must clearly reflect specifically stated vocational objectives and should be developed with the help of instructors in the desire fields of study. A proposal submitted to the registrar for approval of an individualized major must include specific courses and a rationale for the combination of those courses. A minimum of 36 credit hours counting toward an individualized major is required, and a minimum of 16 credit hours in the major must be completed after the registrar's approval.

Individualized Minor Graduation Requirements

See description of individualized major above with these differences: a minimum of 24 credit hours counting toward an individualized minor is required, and a minimum of 12 credit hours in the minor must be completed after the registrar's approval.

Certificate Awarding and Policies

See description of a certificate in the Glossary of Academic Terminology section of this catalog. For a certificate to be awarded at SAU, the following requirements must be satisfied.

- 1. Students must be enrolled in a certificate program at SAU to be awarded a certificate credential. Dual enrollment in a certificate program and a degree program is not permitted.
- Students must take the final course of the certificate program while enrolled in the certificate program.
- 3. Up to 50% of certificate credit hours may be transferred to SAU on a case-by-case review by the registrar's office in consultation with program academic personnel. Programs may further limit the number of credit hours allowed to transfer. All transfer policies apply.
- 4. Credit earned through prior learning assessment is not eligible for certificate programs.
- 5. Courses taken as a part of a certificate program at SAU may satisfy requirements for a subsequent degree or certificate at SAU upon the approval of the academic program and the registrar. Similarly, courses taken in a degree program at SAU may satisfy requirements of a subsequent certificate program upon approval of the degree program and registrar.
- The certificate credential will be awarded on the SAU transcript. No paper certificate will be issued by the registrar's office. Program administrators have the latitude to determine other appropriate documentation of the certificate credential.
- 7. Certificate students do not participate in Commencement.
- 8. GPA and course grade requirements for certificate programs follow institutional policies for the college level of the certificate, but stricter policies may be set by program administrators.
- 9. All institutional policies apply to certificate students, including but not limited to academic status, student conduct, attendance policies, academic integrity, time limits, etc.
- 10. Certificate programs may have special admission requirements or other policies that are detailed in the program sections of this catalog.
- 11. Financial aid may not be available for certificate programs. Students interested in a certificate program should consult with the financial aid office to determine funding.

Graduation Honors

Graduation honors are awarded to students who have demonstrated excellence and outstanding academic performance at Spring Arbor University. Honors awarded at the Commencement ceremony and listed in the Commencement program are determined using the Spring Arbor University cumulative GPA to the hundredths decimal place as reflected on the official transcript and according to the rules below.

- 1. For students who have completed all graduation requirements prior to Commencement, honors awarded at Commencement will be determined using the final SAU cumulative GPA. These honors will be official and printed on the diploma. The transcript will reflect that the student graduate with honors.
- 2. For students with outstanding or incomplete grades or requirements at the time of Commencement, unofficial honors will be determined using the SAU cumulative GPA for the most recently completed semester/interim prior to Commencement. Unofficial Commencement honors may be adjusted on the diploma and final transcript to reflect the official honors awarded once all grades and requirements are completed. Corrections will not be made to the Commencement program or other documents issued before final honors awards are calculated. Honor stoles issued prior to the finalization of official graduation honors may be exchanged in person at the registrar's office.

(NOTE: the MySAU unofficial transcript is not used for honors calculations because it rounds up calculations. Honors calculations from the official transcript are not rounded up or down.)

To be eligible for graduation honors at Commencement, students must meet the following criteria:

- 1. Be a bachelor's degree candidate.
- 2. Complete or be registered to complete at least 50 credit hours that calculate to the GPA at Spring Arbor

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University. (Students who have not completed or are not registered to complete at least 50 SAU graded credit hours upon graduation may be eligible for honors if their SAU cumulative GPA meets the minimum honors GPA requirement <u>and</u> their combined GPA from all institutions meets the minimum honors GPA as listed below.)

- 3. Submit a diploma application by the established and publicized deadline.
- 4. At the time of graduation honors determination, meet the minimum GPA listed below for one of the three levels of honors:

3.70 - 3.79	Cum Laude (with honor)
3.80 - 3.89	Magna Cum Laude (with high honor)
3.90 - 4.00	Summa Cum Laude (with highest honor)

Students who have attained a 3.70 SAU GPA but meet none of the other graduation honors eligibility criteria listed above will be recognized in the Commencement program for their academic success at SAU with the designation of Cum Dignitate (with dignity). Cords will be given to be worn at the ceremony, but no other certificate, award, or recognition will be given for this designation, and no notation will appear on the diploma or transcript.

Degree Conferral

Degrees are conferred on the first day of the month following the completion of all program and graduation requirements. All documentation related to these requirements must be received prior to degree conferral included transfer transcripts and petitions for substitutions.

Diplomas

After the degree is conferred and posted to the transcript, diplomas are mailed to all those who have fulfilled financial obligations. The diploma will indicate the degree and month and year of the degree conferral and graduation honors earned. Graduates should expect the diploma within two to three weeks after the degree is posted to the transcript. The address on the diploma application will be the address used for mailing the diploma. Diplomas do not certify a degree has been conferred. Only official transcripts from the Spring Arbor University Office of Registration and Records certify a degree has been conferred. Diplomas will not be issued until all financial obligations have been cleared.

Diploma covers will not be sent with the diploma. Only graduates who participate in Commencement ceremonies will receive a diploma cover. Graduates may purchase a diploma cover through the Office of Registration and Records and pay for any mailing costs the institution may incur.

Replacement Diplomas/Diploma Covers

Graduates may request a replacement diploma or diploma cover in writing to the Office of Registration and Records. A replacement diploma and/or diploma cover costs \$25 each. Payment must be received prior to releasing the replacements. Proof of identification may be required.

Posthumous Degrees

A student who has passed away while a student at SAU can be eligible for a posthumous degree. SAU offers both posthumous degrees and honorary posthumous degrees. The procedure and policy for each follow.

Posthumous Degree Policy

A student may be nominated for a posthumous degree by his department when the student has completed 85% of the needed credit hours for graduation. To nominate someone, the department chair should write a paragraph or two describing why the student is deserving and send it to the appropriate dean for approval. The dean would then send it to the academic affairs office. Upon verification that the student is in good

academic standing, the chief academic officer will decide on accepting the nomination and will inform the department and the registrar office of that decision.

Honorary Posthumous Degree

A student may be nominated for an honorary posthumous degree by the department when the student has at least 50% of the credit hours completed for the degree. To nominate someone, the department chair should submit the request in writing describing why the student is deserving and send it to the appropriate dean/division chair for approval. The dean/division chair would then send it to the academic affairs office. Upon verification that the student is in good academic standing, the chief academic officer will decide on accepting the nomination and will inform the department and the registrar office of that decision.

ACADEMIC POLICIES

Academic Calendar

The main campus follows a two-semester academic calendar with the fall semester concluding before Christmas break, a three-week interim in January, and a spring semester concluding in May. A limited number of undergraduate classes may be offered in summer months. Most degree completion and graduate programs follow a two six-month semester academic calendar: fall starting in June or July, and spring starting in January. Courses in these non-traditional programs are typically accelerated, modular formats that run shorter than a full semester and are designed to be taken one-at-a-time.

Academic Integrity

The Spring Arbor University Concept – the heart of this institution – is based on the common commitment to Jesus Christ as the perspective for learning. This means that the Spring Arbor University community seeks to live in close adherence to the example and teaching of Jesus Christ in all personal and scholarly pursuits and live a life of highest integrity in these areas. Additionally, any community of teachers and scholars recognizes that truth and honesty are essential in academic work. The expectation at Spring Arbor University is that these principles will be rigorously followed in all academic endeavors. This expectation assumes that all work is completed by the person who purports to do the work, without unauthorized aides. With the purpose of encouraging responsible conduct, this policy flows from the Concept and assumes these important community expectations:

- Everyone who is part of the Spring Arbor University community will seek to live a life of highest integrity, both personally and academically.
- Full truthfulness is essential from all those in the SAU Community.
- Faculty and students will carefully and diligently guard themselves from stealing either material or intellectual property whether physical or electronic in nature.
- Silence about others' disregard for these standards devalues and violates the principles and spirit of our faith, the Concept, and this policy. With prayerful introspection and loving confrontation, we should strive to hold one another accountable to the standard of our faith.

Acknowledging the call in the principle above, the Spring Arbor University community is challenged to maintain integrity in all academic pursuits. There shall be no cheating, misrepresentation, or plagiarism (borrowing ideas, images, facts, stylistic phrasing, or quoted materials without credit) on assignments, tests, lectures, handouts, or any other written materials.

Violations of this policy will carry disciplinary consequences. A zero on the assignment or test can be expected, but failure of the course or suspension may also occur. Students, faculty, or staff may also be subject to dismissal from the University for failure to adhere to his policy. Some actions, such as altering official University documents or records without proper approval or authority, may be further subject to criminal penalties. While any breach of this policy affects the entire community, only incidents of cheating or plagiarism must be reported immediately to the appropriate professor, department chair, dean, or other University employee. Students are encouraged to report in writing, and employees are expected to report situations in writing to the academic affairs office. Confidentiality will be honored unless specific written permission to disclose sources is obtained. No one will be disciplined solely on the testimony of one report without further substantiation. It will be presumed that every student, faculty, and staff member of the University community is familiar with this policy. Details for handling academic integrity concerns may be found in the Spring Arbor University Academic Integrity Policy Disciplines Process and Procedures.

Grading System

Coursework will be assigned a letter grade that carries scholastic points according to the following scale, where plus and minus grades are intended to reflect more accurately the student's actual performance in the classroom.

Grade	Grade Points	Grade Description
Α	4.00	Indicates excellentachievement.
A-	3.67	
B+	3.33	
В	3.00	Indicates good work.
B-	2.67	
C+	2.33	
С	2.00	Indicates fair or average attainment.
C-	1.67	
D+	1.33	
D	1.00	Indicates poor, barely passing work.
D-	0.67	
U	0.00	Indicates unsatisfactory work. No credit is given. The grade is calculated into the Grade Point Average (GPA).
AU	Not computed	Audit: No credit received. A student may drop a course for credit and add for audit through the 8th week of the semester or the half-way point of any accelerated course. Registration may not be changed from audit to credit.
Н	Not computed	Honors Course: Paired with a letter grade "A"-"U" above. (prior to 2022-2023 catalog)
ı	Not computed	Incomplete: Due to unforeseen, emergency circumstances occurring between the
	·	midpoint and end dates of didactic, tutorial or independent study courses. Not intended to
		allow students turn in late work due to their own negligence. A grade change form to the
		registrar's office is required of the instructor within six weeks of the end date of the course.
		A one-time additional extension may be granted by the registrar on a case-by-cases basis
		with a written request from the instructor before the six-week deadline. The "I" grade will
		be changed to a "U" if no grade change form is submitted by the deadline.
IP	Not Computed	In Progress: Indicates current registration in a course that has not yet reached its conclusion. No grade has been submitted.
GP	Not computed	Grade Pending : Indicates an extension to complete coursework in professional, hands-on courses, such as internships, practica, clinical rotations or other special courses approved by
		the registrar. All work, including required paperwork, must be completed within six months
		from the end of the semester in which the student is registered for the course; no
		exceptions. If a grade change form is not submitted to the registrar's office by the
		instructor by the deadline, the "GP" grade will be changed to a "U." (Independent studies
		and tutorials are not eligible for the "GP" grade.)
S	Not computed	Satisfactory Grade: Indicates satisfactory work equivalent to a grade of "C" or above. Credit
	·	will be given, but the GPA is not affected.
W	Not computed	Withdrawal: Indicates authorized withdrawal from classes. A student may withdraw from a
	·	course at any time during the semester. Withdrawals through the last day to withdraw (60%
		of the course) will receive a grade of "W" on the transcript. A "W" does not affect the GPA.
		Withdrawals after this point will receive a grade of "UW."
UW	0.00	Withdrawal with Unsatisfactory Grade: Given after the last day to withdraw from a course
		as described in the "W" description above. A grade of "UW" on the transcript acts the same
		as a grade of "U" in GPA calculations.

Grade Changes

Changing of a final grade after its submission to the registrar is permissible in instances in which fairness might justify a final grade change. This might be the case, for example, when there is demonstrable evidence of a mathematical error in the calculation of a grade, or where there has been an egregious error in grading, such as the failure to incorporate an assignment that was turned in on time. Grade changes are not intended for make-up or additional work submitted after the conclusion of the course except in cases where a grade of "I" or "GP" has been granted.

Requests for final grade changes must be submitted in a timely manner so that the student may have time to appeal the grade. Grade change requests should be submitted to the registrar with documentation to support the request. The registrar will have final approval.

Grade Appeals

Only final course grades may be appealed through the formal Grade Appeal process. A formal grade appeal related to a final course grade should be resolved between the student and the instructor of the course. The grade appeal must be submitted to the instructor no later than 30 days after the grade is issued. After 30 days, the grade issued by the instructor is considered permanent. If an academic department has additional levels of final course grade review (e.g., programs with clinical courses, student teaching, practicum courses), the initial grade appeal should be reviewed by the instructor and the department (i.e., chair, program director). After the grade appeal review, based on the evidence considered during the review process, the instructor may raise, lower, or leave the grade unchanged.

If a student and instructor are unable to resolve the grade appeal to the student's satisfaction, or the student can show at least two unsuccessful attempts to connect with the instructor within one week of time, the student may appeal to the dean, in writing. If the student and dean are unable to resolve the grade appeal, the student may send a final appeal, in writing, to the academic affairs office within seven business days of the decision from the dean. The review by academic affairs is considered final.

If a grade appeal is decided in the student's favor by the school dean or academic affairs, the course grade may be changed to "S" (Satisfactory), signifying a minimum grade of "C," which will remove the course from the GPA calculations. For "S"/"U" graded courses, all criteria for passing the course must be evidenced for a grade appeal to result in a grade change from "U" (Unsatisfactory) to "S" (Satisfactory). At all times, the burden of proof is on the student.

Final Exams

The last three days of the fall and spring semesters for main campus programs are reserved for final exams. All classes meet at a specially designated final exam time for a final evaluation or summative presentation or activity, and students are required to attend. Any student having three or more final exams on the same day may request that one be rescheduled. Instructors may be contacted for such schedule adjustments.

Learning Environment Behavioral Expectations

Students are expected to conduct themselves in a manner that is appropriate for creating an uninhibited and uninterrupted learning environment for instructors and other students. Disruptive behavior in the learning environment is both disrespectful and unChristian and can affect the offending student's status and grade in a course. For students to mature to be competent professionals, they are encouraged to behave in ways that are consistent with this goal. This includes being attentive and fully engaged in class activities without distracting instructors and other students. Instructors have the right to manage disruptive students in several ways including asking them to remove themselves from class and to not return until they have signed a statement of behavior conduct with the Office of Student Development.

Attendance and Participation

Class participation is important for academic success at Spring Arbor University, no matter the method of course delivery. While the University does not have an institutional policy for attendance or participation, programs and instructors may establish policies that are expected to be published in course syllabi and communicated to students in the class. Legitimate circumstances may cause students to miss class, such as illness, emergency, or participation in University-sponsored, co-curricular activities, such as athletic competition or music group travel or performances. When these absences occur, students are expected to contact instructors in advance, if possible, to try to work out reasonable arrangements to ensure that class requirements are met. Students are responsible to make up any missed assignments as directed by the instructor. Students should be careful to not become overinvolved in co-curricular activities so that their academic performance suffers. The following are general attendance expectations.

Synchronous Class Attendance

Synchronous classes are those in which the instructor and students come together at regularly scheduled meeting dates and times. Students are required to attend all synchronous class meetings for the classes for which they are registered including final exam days. Absences for starting the class late, extending breaks, or missing exams are not excused. Academic calendars and final exam schedules are available on the SAU portal prior to semester start dates and should be referenced before making travel plans.

Blended Class Attendance

A blended class consists of partial and/or alternate meetings in synchronous and asynchronous delivery mechanisms, where at least 50% of the course is synchronous. Attendance is based upon physical or virtual attendance in the synchronous meetings and upon electronic records of student participation in the class. A student who is absent from a synchronous meeting of the class will be considered absent, and a student who logs into the course but does not submit asynchronous coursework or participate in class activities is not actively attending. To be eligible for financial aid, students must actively attend a course. If the course is dropped by the student or if the student is dropped from the course by the institution for lack of attendance or participation, recalculation of financial aid eligibility may be necessary.

Online Class Attendance

Attendance in an online course is based upon electronic records of student presence. A student who logs into the course but does not submit coursework is not actively participating. To be eligible for financial aid, students must actively participate in the course. If the course is dropped by the student or if the student is dropped from the course by the institution, recalculation of financial aid eligibility may be necessary.

Credit Hour Load

A full-time undergraduate student is one who carries a minimum of 12 credit hours per semester. Students will typically register for 12-16 credit hours during fall and spring semesters, and students in main campus programs will typically register for up to 4 credit hours during the January interim.

Main campus students are automatically approved to register for more than 16 credit hours per semester based on SAU cumulative GPA as reflected below. It is recommended that freshmen take no more than 16 credit hours in either semester of their first year.

SAU Cumulative GPA Max. # of Credits

3.25	17
3.5	18
3.75	19

Students who receive veteran benefits must carry a minimum of 12 credit hours per semester and at least 3 credit hours during interim to receive full benefits.

Classification of Students

Students are classified based on the number of credit hours earned as follows:

Freshman: 0-25 credit hours Junior: 58-89 credit hours

Sophomore: 26-57 credit hours Senior: 90 credit hours and above

Academic Honors

The academic honors listed in this section are awarded to recognize high academic achievement and scholarship. Graduation honors are listed in the Commencement and Graduation section of this catalog.

Alpha Kappa Sigma

Alpha Kappa Sigma is an honor society among Free Methodist Institutions of higher education. A select number of campus seniors are awarded membership in the organization for recognition of excellence in scholarship, character and leadership. Election is by University faculty.

Dean's List

The dean's list includes all students in traditional main campus programs who have passed a minimum of 12 credit hours with a minimum GPA of 3.70 in the most recent culminating semester. Only letter grades that are computed into the GPA will be considered for the dean's list.

Departmental Honors

Departmental honors may be awarded to outstanding senior students in campus programs. The selection is made by the faculty of that department.

Academic Status

Spring Arbor University encourages students to be academically successful. To help identify students who may need additional academic assistance, each student is classified with an academic status. At the end of each semester, each student's academic progress is reviewed by an academic guidance committee comprised of staff, faculty, and administration. Students designated with an academic standing other than Good Standing will be notified in writing by the Office of Registration and Records. Students with incomplete or in progress grades at the time academic status is determined may be eligible to be removed from a particular academic status if the final grades for those courses elevate the GPA to above the designated status criteria. In those cases, the student should notify the Office of Registration and Records to request an academic status change.

Academic Status is different than Satisfactory Academic Progress for financial aid eligibility. To understand financial aid eligibility, students should refer to the Satisfactory Academic Progress section of this catalog.

Good Standing Status

The following step scale indicates the cumulative GPA necessary to remain in good standing at SAU based upon earned credit hours (including transfer) according to the SAU transcript. (Students receiving veteran's benefits, see Veteran Information.)

Step Scale for Good Standing

Earned Hours	Minimum GPA	
1-15	1.60	
16-24	1.70	
25-36	1.80	
37-47	1.90	
48+	2.00	

Academic Warning Status

A student will be placed on academic warning when the semester GPA is lower than the step scale for correlating earned hours but is above 1.0. Academic warning is not reflected on the student's academic record, but the student may be encouraged to reduce the number of credit hours per semester. Students may be placed on academic warning in the semester when they are removed from probation upon the recommendation of the academic guidance committee.

Academic Probation Status

Students will be placed on academic probation for the subsequent semester under the following conditions:

- Cumulative GPA falls below the appropriate level of good standing on the step scale, OR
- The student does not earn at least a 1.00 ("D") semester GPA OR
- The semester GPA falls below the step scale for two consecutive semesters OR
- The completion ratio of courses counted toward the semester GPA is below 67%

Students placed on academic probation are advised to restrict class load to no more than 14 credit hours, curtail extracurricular activities and work schedules, and may be required to take a GES study skills courses that will count toward electives in the degree program. Students on academic probation cannot compete in intercollegiate athletics. Probation status is reflected on the student's transcript.

Continued on Academic Probation Status

Students may be continued on probation under the following conditions:

- The student was on probation the preceding semester, and
- Semester GPA reaches at least 2.0 at the end of the probationary semester, but the cumulative GPA remains below the step scale; or
- The student completes a third consecutive semester with a semester GPA below the step scale, but the cumulative GPA is equal to or above the step scale. In these cases, a hold will be placed on the student account until the meets with the registrar to review the Graduation Success Matrix.

Continued on probation status is reflected on the student's transcript and is treated as academic probation.

Restored to Probation Status

Students may be restored to probation after a successful dismissal appeal. Restored to probation status is reflected on the student's transcript and is treated the same as an academic probation status.

Removal from Academic Probation

Students may be removed from academic probation at the end of a semester when their academic record meets the requirements of good standing. It may be recommended by the academic guidance committee for this student to be placed on academic warning to provide one additional semester of academic support.

Academic Dismissal Status

Students may be academically dismissed from the University under the following conditions:

- At the end of the probation semester, the semester and cumulative GPAs are below the step scale, or
- In any given semester, a student receives a failing grade in at least 60% of the credit hours attempted, or
- In any given semester, the semester GPA is below 1.0., or
- A student completes a fourth consecutive semester with a semester GPA below the step scale.

At the time of dismissal, it is recommended that the student connect with advisors and the Office of Registration and Records to discuss expectations to be met for eventual readmission to Spring Arbor University.

Academic Dismissal Appeal

Students may appeal an academic dismissal in writing to the Office of Registration and Records by the deadline stated in the dismissal letter. Appeals received after the deadline will not be considered. An appeal does not guarantee the student will be allowed to continue studies at SAU. Appeals should include reasons for challenges to prior academic success and steps the student intends to implement in the future to remedy those challenges. The academic status committee will review appeals and the registrar's recommendations within 30 days of the deadline. The registrar will notify the student within two working days after the committee's decision is made. The decision of the committee is final. If the appeal is granted, the student will be placed on a status of Restored to Probation. Registration will remain on hold until after the student meets with the registrar.

If the student is dismissed at the end of the semester of being restored to probation status, an appeal will not be considered. The student must separate from SAU for the time specified in Readmission after Academic Dismissal section of this catalog.

SAU GLOBAL POLICIES AND PROCEDURES

All policies listed in this catalog apply to SAU Global students unless otherwise specified in this section.

Spring Arbor University is recognized as a leader in accelerated degree completion programs for working adults. Integrally linked to the University's mission and concept, SAU Global offers courses and degree completion majors in innovative and convenient evening, video conferencing, and online formats for adult students. Experiential learning is the foundation on which all SAU Global programs are developed. Students learn through direct application, simulations, cases, discussions, and activities that expand on readings and basic conceptual themes. A major project or internship adds a sharper focus and further integrates the theoretical and the practical in a supportive atmosphere.

Integrated, connected, sequential coursework presented and facilitated by a diverse, experienced faculty and support staff combine for impressive quality. Because of the personal support and the fact that adult students are capable, motivated, and bring a variety of knowledge and experience to the classroom, the success rates in these programs are very high.

SAU Global Admissions

Spring Arbor University welcomes applications from all persons without regard to race, color, creed, national origin, gender, age or handicap.

It is appropriate to acknowledge that SAU Global programs have been designed for students who are 25 years or older or who are independent adults and have been exclusively working adults for an extended period of time. These programs are not designed for traditional aged college students.

A completed application includes:

- · Submission of official transcript from each institution of higher education attended
- Employment history, if at all possible (employment enhances the educational outcomes of the program)
- Satisfactory completion of the writing sample (demonstrates competency required for program success)

Additional admission requirements may be listed within program sections of this catalog and/or program handbooks.

Admission Status

When the admission requirements are satisfied, the student will receive a letter of admission to the specific program for which application was made. A student's admission status will be one of the following.

Full Admission Status

The applicant has submitted a completed application and meets all admissions requirements, including:

- A combined GPA of at least 2.0 from all institutions attended as reflected on official transcripts from all
 institutions of higher education previously attended. (It is recommended that an official high school
 transcript be sent for all transfer students, but it is required for students who have fewer than 26 credit
 hours of college credit post high school graduation.)
- A minimum of 58 credit hours from accredited, degree-granting institutions of higher education required for registration into major courses. For those applying without 58 transfer credits, see Early Admission.

Conditional Admission Status

The applicant is missing official verification of required admissions documents. The applicant may begin taking courses but may be administratively withdrawn if the documents are not received after the first course of enrollment.

Probationary Admission Status

The applicant has minimal entry deficiencies according to admission requirements but has submitted an acceptable, specific educational plan for addressing those deficiencies that is reviewed by an admissions committee. The applicant may begin taking courses at SAU but may be dismissed if minimum requirements are not met within the first semester of enrollment.

Admission Denied

Spring Arbor University reserves the right to deny admission to convicted felons and reserves the right to make decisions based upon factors which it deems relevant under the totality of the circumstances.

Early Admission

SAU Global desires to meet the career, cultural, spiritual, and self-improvement needs of the adult learner. Therefore, SAU Global programs are designed for students who have a solid foundation in college coursework before starting major courses. Students who have not yet earned 58 credits (junior standing) should work with SAU academic advisors to create an academic plan in preparation for taking higher-level, major courses. Students who are admitted with fewer than 58 credit hours are considered early admits and may be given a "pre" designation as they build to 58 credit hours. Once students are fully admitted and allowed to register in major courses, tuition, and fees are adjusted to match the program charges.

Admission Appeal

An applicant who does not meet the admission requirements may petition for admission. A petition for admission is completed and submitted to the SAU Global Admissions Office. The petitions are reviewed by the Undergraduate Conditional Admissions Committee, which makes an admission determination and communicates the decision with admissions personnel. If the applicant is denied admission, the applicant may work with admissions personnel to submit a written appeal to the dean of the program. The dean will review and communicate the final decision in writing to the student and appropriate personnel.

SAU Global Financial Information Tuition and Fees

Tuition and total costs vary by program and may be obtained on the SAU website. Payment for each semester is due seven days before the start date of the course. In order to waive payment on or before the start date of class, a student must complete one of the following:

- Student loan scheduled for the semester (see Financial Aid information)
- Set up a payment plan for the semester

SAU GLOBAL POLICIES AND PROCEDURES

 Submit a Third Party Assistance Information Form and provide a voucher or letter authorizing SAU to invoice the third party.

SAU Global Financial Aid Policies

Please refer to the Financial Aid section in this catalog.

Tuition Refund Policies

Information about tuition refunds can be acquired through the business office.

SAU Global Registration Policies

Dropping/Withdrawing from a Course

Once a student is actively attending course in a given semester and decides to drop or withdraw from a course, federal aid regulations require that a determination be made whether the student is withdrawing from a single course or from the entire program. Students will be considered to have withdrawn from their program unless they are attending another course at the time the course is dropped or they inform their advisor of their intent to continue in their degree program. Once students have been dropped or withdrawn from a class, reinstatement into that same class cannot occur unless it is within the add period.

When a course is dropped, the student must notify their advisor that they plan to take the remaining courses for which they are registered. The next course for which they are registered must start within 45 days of the last day of the last course that the student attended; otherwise, the student will still have to be treated as a student who has withdrawn.

Students meeting either of the two criteria above are still considered enrolled in their degree program and financial aid will continue, though it may still be adjusted for the course that was dropped. Financial aid will be recalculated, and funds may be returned for students who are considered withdrawn from their program. If the student commences attendance again in the degree program, all or a portion of their aid may be reinstated.

SAU Global Transfer Policies

Upon admission to the institution and upon receipt of all official transcripts from previous institutions, an evaluation will be conducted to determine which credits will transfer from sending institutions to the SAU transcript. Only courses that apply to the degree will be transferred.

A student must request that an official transcript from each college or university attended be sent directly to Spring Arbor University admissions. Failure to submit all transcripts will result in the student being placed on conditional admission.

SAU Global program transfer policies vary somewhat from the policies for students enrolling in programs offered on the main campus. Below are listed the differences in the transfer policies. All other policies are the same as those listed in the "Transfer Policies" section in of the catalog.

- Up to 80 credit hours from community colleges which primarily grant associate degrees are allowed.
- Up to 40 technical credit hours are allowed.
- Up to 62 nursing credit hours can apply to the RN-BSN post-licensure program.
- Regardless of the number of credit hours transferred, all graduation requirements must be met for a
 degree to be conferred, including all General Education curriculum and major course requirements
 listed in the program's curriculum.

SAU Global Academic Policies Attendance

Students missing two of any combination of class participation – synchronously scheduled class

sessions or asynchronous assignments – may be administratively withdrawn from the class due to nonparticipation. Students may be allowed to continue in the program without immediately retaking the course unless the course is prerequisite to the next course in the program course sequence. Students should work with their academic advisor to determine when the course should be repeated.

• Students accumulating five of any combination of absences (defined in the bullet above) in major courses in the program may be administratively withdrawn from the program.

A petition to reconsider a withdrawal due to nonparticipation may be submitted through academic advisors to the Office of Registration and Records. The Office of Registration and Records will review the petition for a final determination.

NOTE: some programs may have more stringent absence policies. Students should refer to program handbooks or confer with academic advisors for more information.

Readmission after Academic Dismissal

Students may apply for readmission after a period of separation from SAU through the Office of Admissions according to the following conditions:

- First dismissal students may not attend SAU for one full semester including interim or summer.
- Second dismissal students may not attend SAU for two full semesters including interim and summer.
- Third dismissal students are permanently dismissed from SAU.

The dismissal count does not restart, even for students who are restored to probation after appeal (see Academic Dismissal Appeal). Once a student receives a dismissal notice, the dismissal is added to the count. Therefore, if a student is dismissed but is allowed to continue on probation after appeal and is subsequently dismissed the next semester, the student has accumulated two dismissals.

When applying for readmission after the specified academic dismissal period, the student will be asked to present evidence of probable future academic success, self-discipline and focus, and self-development, which may include transcripts from courses taken during the separation from SAU and/or support letters or documentation from doctors, counselors, employers, pastors, etc. The Office of Registration and Records may deny readmission if the evidence presented does not support the expectation of future academic success. If the decision is made to readmit the student, the Office of Registration and Records may require the student to sign the Graduation Success Matrix before removing a registration holds.

Students readmitted after academic dismissal will be placed on academic probation for the first semester after readmission. University academic standards and departmental conditions must be met by the student at the end of that first semester after dismissal in order to return to good standing status and continue enrollment at Spring Arbor University. Once the student has completed the first semester after readmission, all academic status rules apply as normal.

ACADEMICS

Glossary of Academic Terminology

Associate of Arts (A.A.)

The A.A. is an undergraduate degree conferred upon students who have completed the requirements of the program and institutional graduation requirements. A.A. programs are distinguished by coursework that focuses on general education and social, artistic, or literary analysis.

Associate of Science (A.S.)

The A.S. is an undergraduate degree conferred upon students who have completed the requirements of the program and institutional graduation requirements. A.S. programs are distinguished by coursework that focuses on general education, quantitative and/or scientific reasoning, and practical application.

Associate of [Specialty]

The Associate of [Specialty] is an undergraduate degree conferred upon students who have completed specialty program requirements and institutional graduation requirements. Associate of [Specialty] programs are distinguished by coursework with an emphasis on a particular field of study or career path. These programs are regular degree offerings designed by the institution. These programs are not individualized programs designed by students. (E.g., Associate of Piano Pedagogy.)

Bachelor of Arts (B.A.)

The B.A. is an undergraduate baccalaureate degree conferred upon students who have completed the General Education program and institutional graduation requirements. B.A. programs are distinguished by a qualitative and theoretical focus and require coursework to include at least 6 upper-level credits in courses with an emphasis on social, artistic, or literary analysis in addition to General Education requirements.

Bachelor of Science (B.S.)

The B.S. is an undergraduate degree conferred upon students who have completed the General Education, program, and institutional graduation requirements. B.S. programs are distinguished by a quantitative and practical focus and require coursework to includes at least 6 upper-level credits in courses with an emphasis on quantitative and/or scientific analysis and reasoning in addition to General Education requirements.

Bachelor of [Specialty]

The Bachelor of [Specialty] is an undergraduate degree conferred upon students who have completed the General Education, specialty program, and institutional graduation requirements. Bachelor of [Specialty] programs are distinguished by an exclusive focus on a particular field of study or career path. These programs may have special accreditation standards in addition to regional accreditation, and they typically lead students to the possibility of licensure or certification after their degree is conferred. These programs are regular degree offerings designed by the institution. These programs are not individualized programs designed by students. (E.g., Bachelor of Social Work.)

Certificate

Certificates represent a successful achievement of coursework in a well-defined, cohesive, and singularly targeted body of knowledge in an academic discipline or in a specialized skill-set for a professional field. Certificate programs are comprised of 9 to 29 credit hours of 1) certificate-specific courses, 2) a subset of courses drawn from existing SAU degree programs, or 3) a combination of both. Certificates are earned independently from degree programs and are intended for knowledge or skill enhancement, professional development, discipline exploration, or preparation for exams of external credentialing bodies.

Certification

A credential issued by an external agency after fulfillment of specified curricular and possibly other requirements. Certification is not a credential earned at SAU.

Concentration

Concentrations are groups of courses within a major or program that focus on a particular specialization in the field of study. They are considered part of the major or program. At minimum, a major with concentrations should have at least two concentration choices. Concentrations are comprised of 9-29 credit hours and do not include foundation courses.

Core

Core courses refer to courses in the General Education program.

Endorsement

An endorsement is a special program designed to meet criteria or standards specified by an outside body or agency and are affiliated with outside licensure and certification. They are typically post-degree or extra-degree programs. The number of credit hours in an endorsement is determined by the standards or criteria of the outside body. Prerequisite requirements should be included in the credit-hour count unless it is expected that students will have met those requirements prior to matriculating into the program.

Foundation

Foundation courses are courses common to major programs in a specific department or school.

Institutional Endorsement

An institutional endorsement is comprised of 9-17 departmentally prescribed credit hours designed to equip students with a very specific knowledge or skill-set within a particular field of study. Institutional endorsements are supplemental to a bachelor's degree program and cannot be earned as an independent credential. Students may earn more than one institutional endorsement, but courses in an institutional endorsement may not overlap with courses in a major, minor, endorsement, second institutional endorsement, or certificate. Prerequisites should be included in the program and credit-hour count unless it is expected that students will have met those requirements prior to entry into the program.

Major

A major is a group of courses within a baccalaureate degree program that equips students with general knowledge in a specific field of study. Majors require a minimum of 30 credit hours. Prerequisite requirements for major courses should be included in the credit-hour count unless it is expected that students will have met those requirements prior to matriculating into the program.

Minor

A minor is comprised of 18-29 credit hours of related courses that focus on a particular field of study but are secondary and complementary to a major. Minors cannot be earned independently of a bachelor's degree. No more than two courses of a minor can overlap with a major or second minor. Minors can be more than 29 credit hours if they are designed to meet accreditation, certification, or licensure standards of outside agencies. Prerequisite requirements for minor courses should be included in the credit-hour count unless it is expected that students will have met those requirements prior to entry into the program.

Required Support

Required support courses are required by the department and essential for preparation for or prerequisite to courses in the major. They are considered part of the major and follow the minimum grade standards of the major unless otherwise specified.

Track

Tracks are distinct curriculum pathways that lead to the same credential. Tracks are differentiated at the starting point of the program but converge and culminate at the same ending point. E.g., pre-licensure and post-licensure nursing tracks.

Teacher Preparation Program

The School of Education's Christ-centered mission is to develop and empower dedicated professional educators committed to student learning in a global society. The teacher preparation program is firmly established, guided by, and assessed using the School of Education (SOE) Model for Effective Teaching (see graph). The core and central component of the model is the University's Concept and the integration of faith in all learning experiences. The six foundational domains and four professional



elements ensure that every teacher candidate is knowledgeable, skilled, and effectively prepared for success as a professional educator. Assessment processes are reasonable and consistent and data from those processes informs decisions concerning all aspects of the educator preparation program.

Teacher Education Accreditation

The Council for the Accreditation of Educator Preparation (CAEP) recognizes the School of Education at Spring Arbor University as a fully accredited educator preparation program. The next CAEP accreditation visit will occur in spring 2025.

The Michigan Department of Education (MDE) requires that all educator preparation programs receive national accreditation status. Upon successfully completing the chosen program of study, candidates participating in the Spring Arbor University School of Education accredited program are eligible to become recognized "certified teachers" by the MDE.

Teacher Certification

The teacher preparation program at SAU is approved by the MDE for teacher certification in Michigan. Students desiring Michigan teacher certification are responsible for meeting all certification requirements of the MDE, whether or not they are explicitly stated in this catalog. Candidates for certification as an elementary educator must pass the appropriate grade level Michigan Test for Teacher Certification (MTTC). Candidates for certification as a secondary educator must pass the MTTC in their content major.

Elementary certification covers PK-3 or PK-6 all subjects. Secondary certification covers grade 6 through 12 in the candidate's major and minor disciplines. K-12 endorsements for elementary candidates are English as a Second Language, Spanish, and Special Education: Learning Disabilities. K-12 endorsements for secondary candidates are Spanish and Special Education: Learning Disabilities.

School of Education Policies and Procedures

Policies and procedures for the SOE are located in the Handbook, which is revised annually and provided to students in EDU 140 Exploring Critical Skills for the Professional Educator. In order to complete the teacher education program, a student must successfully meet the program requirements in effect at the time of the student's first semester of enrollment at SAU.

Disclaimers:

- 1. MDE Administrative Rules, state laws, and changes in requirements of accreditation bodies may supersede any requirements printed in the catalog or SOE handbook.
- 2. The state of Michigan is in the process of modifying the structure of teacher certification from elementary or secondary to grade bands. This will affect every teacher education student in Michigan.

Elementary Education Requirements

Students in elementary teacher education programs will be required to fulfill program requirements for either the Elementary Education: Grades PK-3 major or the Elementary Education: Grades PK-3 and 3-6 Comprehensive major.

Secondary Education Program Requirements

Completion of an MDE approved certifiable major and one minor or one comprehensive major is required.

Comprehensive Majors	Majors	Minors
Music Education (JQ)	Biology (DA)	Biology (DA)
Social Studies (RX)	Chemistry (DC)	Chemistry (DC)
Integrated Science (DI)	English (BA)	English (BA)
	Integrated Science – Group (DI)	History (CC)
	History (CC)	Mathematics (EX)
	Mathematics (EX)	Political Science (DE)
	Social Studies - Group (RX)	Psychology (CE)
	Spanish (FF)	Spanish (FF)
	Special Education: LD (SM)	Teaching English as a Second Language (NS)

Secondary Professional Program Requirements

EDU 140/L Exploring Critical Skills for the Professional Educator/Lab (3)

EDU 202 Issues and Trends in American Education (2)

EDU 230 Educational Psychology (3)

EDU 271 The Diverse Learner (4) or EDU 273 Diversity Issues for Educators (SED programs) (2)

EDU 360 Integrating Technology in Education (2)

EDU 425 Reading Development in Middle and Secondary Content Areas (3)

EDU 429 Effective Classroom Management, Assessment and Instruction (3)

EDU 430S Seminar in Teaching – Secondary (3)

EDU 450S Directed Teaching - Secondary

<u>Two</u> of the following methods courses – one methods course in the major and one in the minor:

EDU 336 Teaching at the Secondary Level* (2)

EDU 341 Teaching English - Secondary Level (3)

EDU 342 Foundations of Secondary School Math (3)

EDU 343 Teaching Science - Secondary Level (2)

EDU 344 Teaching History and Social Studies - Secondary Level (2)

EDU 346 Teaching World Languages (2)

EDU 349 Methods and Materials for Teaching Music in the Secondary School (3)

Post-baccalaureate Education Programs Initial Teacher Certification

Students with no previous teacher certification who hold a bachelor's degree may take courses to be eligible for initial certification in Michigan. A Post-Batchelor's Accelerated Certification to Teach (PACT) non-degree program leading to K-5 elementary certification is approved by the MDE and is available for the 22-23 academic year. Contact the academic advisor in the School of Education for information.

Subsequent Teaching Endorsements

Students with previous teacher certification may add teaching endorsements listed below, which require 50 clinical clock hours under the direction of a teacher who holds the endorsement sought.

- Secondary endorsement onto an elementary certificate (grades 6-12 in the major and minor fields appropriate to secondary certification.)
- Additional subject area endorsements (see listing of majors and minors on previous pages)

^{*} EDU 336 should be taken as one of the methods courses if the combination of the major and minor would put the student in the same methods course. Example: chemistry major and biology minor should register for EDU 343 and EDU 336. It is strongly recommended that all secondary candidates take EDU 336 before the student teaching internship.

E. P. Hart Honors Program

The E. P. Hart honors program is dedicated to the development of student character, conviction and community through intense academic study and faculty mentorship. Students participate in a great books curriculum in six team-taught courses as well as study interdisciplinary topics in a yearly one-credit hour honors seminar. Mastery within a student's major is demonstrated through a senior thesis, guided with the help of a faculty mentor. Honors students receive the E. P. Hart Scholarship – the largest at SAU.

E. P. Hart Honors Program Eligibility

- 1. High School coursework/transcript marked by rigor: three years each in college preparatory mathematics, science, English/language arts, social studies/science, and two years in foreign language.
- 2. Minimum composite ACT score of 27 OR SAT of 1280. (Motivated students who do not meet the ACT/SAT or GPA requirements may apply for the program and will be considered on an individual basis.)
- 3. Cumulative high school GPA of 3.6 or higher.
- 4. Two references: one from a teacher and the other from a pastor or community member who can attest to service experience, character, and integrity consistent with SAU Lifestyle Expectations.
- 5. Completed application with writing sample and interview with E. P. Hart Honors program directors.

E. P. Hart Honors Program Requirements

- 1. Maintain a 3.6 cumulative GPA at SAU.
- 2. Display character and integrity consistent with SAU Lifestyle expectations.
- 3. Complete the six-course General Education honors curriculum. See Course Descriptions under the HON prefix or the E. P. Hart honors director for additional information.
- 4. Complete an annual 1 credit hour honors seminar course each year from freshman through junior year for a total of three credit hours.
- 5. Complete a senior honors thesis. Senior honors thesis 490 forms are available in the student portal or in the Office of Registration and Records. Students may choose to register for one of the following options to complete this requirement:
 - a. A departmental major 490 course for credit (regular letter grade), along with HON 490 for zero credits (graded "S"/"U"). Two 490 forms are required for registration, but only one prospectus attached to the departmental major 490 form is needed.
 - b. An alternate upper-level major course in which a thesis may be completed as a part of regular coursework, along with HON 490 for zero credits (graded "S"/"U"). Instructor and honors program director approval required for this option. One 490 form (HON) along with the prospectus is required for registration.
 - c. HON 490 for credit (regular letter grade). One 490 form (HON) along with the prospectus is required for registration.

Off-Campus and Study Abroad Programs

Spring Arbor University students are encouraged to participate in off-campus learning experiences in their four-year degree programs in the form of field work, practicum, exploratory experience, independent study, and/or participation in a domestic or international off-campus semester program. Students' participation in an off-campus semester program must be approved by the Cross Cultural Studies and Student Development and Success offices before registration is approved.

ROTC

SAU students may participate in Reserve Officer Training Corps (ROTC) through the U.S. Air Force program at the University of Michigan. Courses completed successfully with a "C" or better can be transferred to SAU as electives. For Air Force ROTC details, contact U of M AFROTC, 1080 Chemistry Building, 930 N University, Ann Arbor, MI 48109-1055, Phone: 734.764.2403, FAX: 734.647.4099, Email: afrotc@umich.edu.

Domestic Off-Campus Study Programs

The University has a rich tradition of collaboration with a variety of domestic semester study programs. State and federal aid may be applied to the cost of off-campus semester programs. There is a limited amount of University sponsored financial assistance available to students enrolled in off-campus programs. Students should consult with the financial aid office to understand the financial ramifications. Students who are U.S. citizens and receive need-based aid are also encouraged to apply for outside study abroad scholarships. Students participating in these programs will be registered at SAU after consulting with Office of Registration and Records staff to determine courses that will apply to the student's program and graduation requirements. Grades are submitted from study abroad programs to the SAU registrar's office and are recorded on the transcript according to SAU's grading system.

The following programs aim to bring a Christian perspective to the issues studied, with the intent of helping students develop an integrated biblical worldview. Domestic experience application packets are available in the Career Development Office. These programs do not satisfy the cross-cultural requirement. All students participating in such opportunities will be charged a non-refundable \$75 SAU Domestic Semester Administrative fee early in the planning and application process.

American Studies Program (ASP) - Washington, D.C. https://www.cccuglobaled.org/

A program of the Council for Christian Colleges and Universities (CCCU). The American Studies Program (ASP) in Washington, D.C. will equip students with the tools and experiences needed to translate their campus education into a Christ centered career in professional leadership and service. Through intensive internships and coursework, student will nurture the leader within during the experience at ASP.

Chicago Semester or Summer www.ChicagoSemester.org

The 16-week semester program delivers a custom-tailored Chicago experience, designed to help students prepare for their post-college life. Program staff works closely and collaboratively with students to place them in a full-time internship. Included is a professional seminar and up to two courses for academic credit, depending on the track selected. The 10-week summer program is ideal for students who find it difficult to be away from campus for a full semester. It delivers the same memorable Chicago experience, designed to help build a résumé and professional network in preparation of fulfilling their post-college calling.

Contemporary Music Center (CMC) - Nashville, TN https://www.cmcnashville.com/

The CMC offers a semester-long 16 credit hour program that prepares college students for careers in the entertainment industry and challenges them to live out their faith as Christ-followers. Thirty students live, work, and create music together in a facility with 24/7 access to world-class gear taught by faculty who are music industry professionals. Includes a week-long road tour at the end of the semester.

Oregon Extension www.oregonextension.org

Every autumn, several dozen college students from across the U.S. step "out of the current" for an unusual semester of vigorous intellectual exploration in a serene setting that invites students to pursue deep questions. Students earn 17 credits but focus on one topic of study at a time through daily reading, small group discussion, and one-on-one conversations with faculty members.

International Study Abroad Programs

International study abroad programs are administered by the Cross Cultural Studies (CCS) office. Several exciting international study abroad opportunities are available. All students participating in international semester and short-term opportunities will be charged a non-refundable \$150 SAU Study Abroad fee early in the application process for each experience. All students attempting to earn credit outside of the U.S. must be preapproved by the Office of Registration and Records. This process begins by attending an "International Study Abroad Workshop" at least 12 months in advance of the experience. Workshops are conducted on a regular basis in the CCS office and preregistration is required.

ACADEMICS

If an international program is located in a country under a U.S. State Department Level 4 travel advisory prior to departure, per institutional policy, Spring Arbor University will not offer credit through that program to students. When the level 3 students may participate in the program for credit.

All students must submit official immunization records to the CCS Office as a part of the application process. Students whose immunizations as defined by the Centers for Disease Control are incomplete will be required to provide documentation from their medical provider as having received the required series of immunizations before registering for their program. In instances where no childhood immunizations have been received, it may take a year or more to get all of the shots scheduled and completed. Students who philosophically object to immunizations should choose majors and/or minors that do not require study abroad, or CCS programs that do not require immunizations. Students without the required immunizations necessary for specific trips will not be allowed to participate. For additional information, course descriptions, and an international off-campus semester packet, students may contact the CCS Office.

SAU International Programs

SAU Japan Semester or Summer

SAU offers a 13-week semester and an 11-week summer abroad Japan program in cooperation with East West Educational Services, Inc. (EWE). Students of any major can gain SAU credit hours and fulfill the cross cultural requirement while serving in the private kindergartens of EWE teaching English and American culture to Japanese preschoolers. While living and working alongside Japanese educators in the community of Inzai (Chiba prefecture, greater Tokyo area), students will gain insight into the culture. Specific guided experiences in Japanese culture, individualized tutorial lessons in Japanese language (not for college credit unless language proficiency can be demonstrated), and arranged activities with the kindergarten families will be provided by EWE. Required core courses of the program include COR 374 Japan, to be taken the semester prior to traveling to Japan, and COR 375 Japan, taken on site. Japanese language lessons with a private tutor will be provided by EWE for functioning in Japanese society and at the kindergarten level. Semester students may add SAU online courses and/or tutorials to gain up to 15 credit hours. Summer participating students take only COR 375 and language tutoring. Certifying education students can obtain 50 of their 120 required observation hours by participating in SAU Japan.

SAU Jordan Semester

SAU partners with Kelsey Language Institute in Amman, Jordan to offer studies in the Arabic language and culture in a Christian context with curriculum focused on an oral approach to the language to increase student acquisition of spoken Arabic as much as possible. Language instruction at the elementary and intermediate levels are taught in a cultural context that promotes awareness and appreciation for the culture. The curriculum is designed to enable the beginning student to use spoken language to build relationships with locals that will last for the duration of the language learning process. Opportunities include service projects such as ministering to the needs of Syrian and Iraqi refugees and participating in ministry with the Christian churches of Amman. A few travel opportunities in Jordan are offered on weekends to Petra, Mount Nebo and ancient Roman ruins. Students will live in apartments or with a Jordanian family. Students will take COR 374 Jordan by tutorial the semester prior to travel and COR 375 by tutorial from the SAU instructor while in Jordan, fulfilling the cross cultural requirement.

SAU Tokyo Christian University-East Asia Institute http://acts.tci.ac.jp/eai/

The East Asia Institute, offered each fall semester by Tokyo Christian University, provides a core curriculum of courses that will provide immersion in Japanese culture to students. Students will take Japanese Culture and Society (an overview of Japanese culture and society in the international context), History of Japanese Arts and Aesthetics, Japanese Religion and Philosophy, and Elementary Japanese Language and Culture. Fieldtrips and guided experiences in Japan are a key part of the program. This semester would be valuable to students interested in missions or business in Japan and Asia. The SAU cross-cultural requirement is met

by this experience by taking COR 375 Japan by tutorial the semester prior to the study abroad and by taking Japanese Culture and Society at TCU. See the CCS director for more details.

Non-SAU International Semester Programs

Accès Strasbourg, France http://www.accesstudyabroad.fr/

This study abroad semester is designed specifically for students who are minoring in French. French minors must take COR 374 France the semester prior to the semester abroad and FRE 355 Contemporary Religion in France, which fulfills the COR 375 requirement. A political science track taught in English is offered for non-French minor students. Students electing the political science track must take COR 374 France tutorially the semester prior to the semester abroad, and they must take FRE 355 Contemporary Religion in France to meet the COR 375 requirement. Most students take the majority of their courses at the Institut International d'Études Françaises (IIEF). See the CCS director and the Department of World Languages chair for more details.

Council for Christian Colleges and Universities International Programs

Information about the semester abroad international programs through the CCCU can be found at https://cccuglobaled.org/.

Middle East Studies Program (MESP)

Based in Amman, Jordan, this program offers students a unique opportunity to explore and interact with the complex, strategically important world of the modern Middle East. MESP students can earn up to 16 credit hours in the semester abroad. This program fulfills the CCS requirement.

Oxford Summer Programme (OSP)

The Oxford Summer Programme allows students, as affiliate members of Wycliffe hall, University of Oxford, to do intensive scholarship in the oldest university in the English-speaking world. This program does not fulfill the SAU CCS requirement.

Semester in Spain https://www.semesterinspain.org/

Semester in Spain is a Spanish language immersion study abroad program of Trinity Christian College is open to SAU Spanish majors in fall or spring semesters, and two sessions during the summer. With native Spanish professors, students will excel academically while living in the bustling and historic city of Seville. During this semester abroad, students will not only learn the language, but also experience the culture of Seville's people, homes, churches, shops, and restaurants. Spanish minors could qualify to attend the summer Trinity Christian College sessions. Spanish language majors and minors can fulfill their CCS requirement at this program by taking COR 374 Spain at SAU the semester before travel, living with a Spanish host family, and taking a culture class, which can count as language credit, as a part of their semester or summer courses. (See Spanish academic programs for additional requirements.)

The Scholar's Semester in Oxford (SSO)

The Scholars' Semester in Oxford is designed for students who want to study intensively and to a high standard. Students develop their academic writing and research skills and explore the disciplines and interests of their choice. Applicants are generally honors and other very high-achieving students and must have at minimum a 3.7 GPA to be considered for the program. SSO students can earn up to 17 credit hours for one semester and may complete two semesters of the program. This program fulfills the SAU CCS requirement when the student includes The British Culture in their coursework.

General Education Curriculum

As followers of Christ the Creator and supporters of the unity of the Creation, the University believes 1) the study and application of a common set of pathways, called the liberal arts, is a means to proclaim and explore the interconnectedness of all knowledge as a learning community, and 2) the liberal arts underlie all academic inquiry, which leads to wisdom by ordering thoughts and affections, shaping imaginations, and acknowledging the flourishing of the image of God within his creation.

Members of this community of learners pursue the liberal arts through two broad pathways connected to the ancient pursuit of human knowledge and wisdom – the Trivium, or the "Three Ways," and the Quadrivium, or the "Four Ways." The Trivium is foundational to all disciplines and consists of questions about the structure of language, of truth, and about how language may persuade others of truth. The Trivium embraces the central role of language in thought and practice, and it teaches the possibilities in the use of language to participate in God's truth, goodness, and beauty. The Quadrivium historically has investigated the intelligibility and coherence of creation through arithmetic, geometry, music, and astronomy. Today, it includes disciplines that teach investigation, testing, description, and participation in ordered relationships in the world such as mathematics, technology, music, art, and the natural sciences. Each discipline at SAU pursues these pathways and questions so that each student will graduate having practiced these unifying arts as part of the community of learners. Graduates will possess shared roots that teach them the love of God and what forms a true university. These roots are formed through carrying on conversations with one another as students participate more fully in understanding God's creation both at SAU and beyond, and then working toward the shalom God intends for all of creation.

General Education Objectives

The University's vision for the liberal arts is embodied in the General Education curriculum, which exists to promote the spiritual and intellectual development of servant-scholars with the knowledge and abilities to think and act critically as Christians across disciplinary boundaries. In all General Education courses, students will be able to 1) articulate what it means to have Jesus Christ as the perspective for learning, 2) express and explore ideas and questions through speaking, writing, and listening, 3) understand and apply basic knowledge, skills, and methods appropriate to the liberal arts, and 4) demonstrate the ability to think creatively and critically and act ethically and purposefully.

General Education Core Curriculum

The General Education curriculum grows out of the SAU Concept and embodies the belief that Jesus is the perspective for learning. This core curriculum fosters coherence across disciplines, strengthens connections between the ways of knowing within the study and application of the liberal arts and the world beyond the academy, and breathes inspiration into the work of the community of learners as excellence is practiced. This curriculum explores the SAU Concept through four primary components: Community of Learners, Biblical Studies, Liberal Arts Skills, and Liberal Arts Pathway courses. The interconnected nature of these pieces is like a tree firmly rooted in the Concept from which nutrients flow into the core curriculum, which nourishes the leaves and branches of the major curriculum, and finally produces the fruit of excellence.

Community of Learners Core Requirements (4-13 Credit Hours)

Community of Learners courses are core experiential courses that orient SAU students toward virtue through a rigorous academic journey among questions of community, place, faith, and citizenship. Students encounter these questions: What is an academic community? How am I responsible to people and places? Where do I belong in this world? What is a well-lived life? What can I learn from tradition? How do I practice my faith? How am I to love both God and my neighbor?

Course Number COR 100	Course Title Life in Community (Waived with 26 post high school transfer credits.)	Credit Hours
COR 200	Christ, Culture, and Diversity (Waived with 58 post high school transfer credits.) HON 234 Great Books of Community, Place and Responsibility (honors program) or SDL 200 Bridging the Gap (application) may substitute.	2
COR 374 and COR 375	Preparing for Cross Cultural Studies and Cross Cultural Studies (Waived with 58 post high school transfer credits.)	1 and 3
COR 300	Christian Faith and Community HON 334 Great Books of Christian Tradition (honors program) may substitute.	2
COR 400	Christian Life and Vocation	2

Biblical Studies Requirements (3-6 Credit Hours)

As a Christian liberal arts institution, the University cares deeply about Christian heritage, the long history of God's revelation through the written word of Scripture, and the living word of Jesus Christ. Thus, the study of the Old and New Testaments teaches students how to faithfully embody scriptural tradition through spiritual formation and ministry. One course may be waived with 58 transfer credits.

BIB 217	Old Testament Survey	3
BIB 218	New Testament Survey	3

Liberal Arts Skills Requirements (10-15 Credit Hours)

Liberal arts skills courses embrace the central role of language in thought and practice and teach students how to use language to participate in God's truth, goodness, and beauty, while caring for the whole person.

W	/r	it	ir	ng
				-0

ENG 103	Basic Writing (Waived with SAT writing sub-score of 27 or placement by English faculty.) "C" or better required. This course is not listed in program curriculum or counted in the total number of credits needed because it is assumed students meet the SAT score upon admission. Credit is not given if this course is waived.	3		
ENG 104	College Writing "C" or better required. Teacher education students require "B-" or better.	3		
ENG 304	Writing and Research May be waived by passing the sophomore writing assessment. Credit is not given if the course is waived. Students who do not take or pass the assessment must register to take this course. The assessment may only be taken one time.	3		
Oral Communication	on (Choose one of the following. "C" or better required.)			
SPE 100	Oral Communication	2		
SPE 212	Fundamentals of Speech	3		
COM 212	Rhetoric (Department of Communication majors only)	3		
Wellness/Health/Fitness (Choose one of the following.)				
HPR 101	Personal Fitness and Wellness	2		
HPR 153	HPR 153 Found. of Physical Fitness, Health, and Wellness (HHP majors only)	3		

Liberal Arts Pathways (21-25 Credit Hours)

The University identifies seven pathways, representing a broad cross-section of how the world is known and tying to the historical development of liberal arts. Students will explore four key elements in each pathway to discover how learning and the pursuit of truth and wisdom is interdependent between the pathways. The four elements students will explore are 1) the scope of the discipline, 2) the terms of discourse in that discipline, 3) the means of analysis in the discipline, and 4) the significance of the discipline.

ACADEMICS

PHY 102

Fine Arts Pathway		
Course Number	Course Title	Credit Hours
Art Courses (Choose o		Credit Hours
ART 152	Art Foundations	2
ART 162	Drawing I	3
ART 165	2D Design	3
ART 166	3D Design	3
ART 205	Foundations of Photography	3
ART 272	Introduction to Graphic Design	4
ART 320	History of Modern Art	3
ART 326	History of Art: Renaissance to 19 th Century Western Art	3
Music Courses (Choos	e one music course.)	
MUS 152	Music Foundations	2
MUS 220	Music Appreciation	3
MUS 230	Instrumental Performance Group (2 semesters)	1 and 1
MUS 240	Vocal Performance Group (2 semesters)	1 and 1
Nursing majors students may	take FAS 152 to meet both art and music requirements.	
History Pathway (Cl	hoose one history course.)	
HIS 121	History of Civilization I	3
HIS 122	History of Civilization II	3
HIS 122	History of Civilization II	3
HIS 141	United States to 1877	3
HIS 142	United States since 1877	3
HIS 221	Black Experience in America	3
HON 327	Great Books of American History (honors program only)	3
SST 200	Human Society: Learning in the Social Studies (teacher education only)	3
Literature Pathway	(Choose one literature course.)	
ENG 112	World Literature	3
HON 310	Great Books of World Literature (honors program only)	3
Mathematics Pathy	Nay (Choose one mathematics course above MAT 100.)	
MAT 101	College Algebra	3
MAT 104	Math for the Liberal Arts	3
MAT 112	Precalculus	3
MAT 201	Calculus I	4
MAT 330	Foundations of School Mathematics (teacher education only)	3
MAT 351	Statistics	3
NOTE: See course descr	iptions for math course prerequisites.	
Philosophy Pathwa	Y (Choose one philosophy course.)	
PHI 200	Introduction to Philosophy	3
PHI 210	Survey of World Views	3
HON 317	Great Books of Philosophy (honors program only)	3
Science Pathway (C	hoose one science with lab course.)	
Course Number	Course Title	Credit Hours
BIO 100	Principles of Biology	4
BIO 281	Environmental Science	4
CHE 101	Introduction to Chemistry	4
CHE 173	Forensic Science	4
NSC 200	Elementary Science Survey: Science by Inquiry (elementary ed. only)	4

4

Conceptual Physics

		ACADEMICS
PHY 120	Introduction to Earth Science	4
PHY 131	Meteorology and Planetary Science	4
_		
Social Science	Pathway (Choose one course from the following)	
EDU 230	Educational Psychology (teacher education only)	3
ECN 101	Introduction to Economics	3
ECN 221	Introduction to Microeconomics	3
ECN 222	Introduction to Macroeconomics	3
PSY 100	Introduction to Psychology	3
SOC 100	Modern Social Problems	3
SOC 101	Introduction to Sociology	3

SAU Global General Education Requirements

Total General Education Credit Hours for Campus Programs

SAU Global General Education curriculum differs somewhat from traditional programs due to the difference in life experience in the populations of students in these programs. Global programs are identified in the program listing. Some General Education requirements are met by courses required within some of the major program curriculum as reflected in the program sections of the catalog.

40-59

Community of Learners Requirements (6-18 Credit Hours)

Course Number	Course Title	Credit Hours
COR 110	Christ and the University Experience (Waived with 26 post high school transfer credits.)	3
COR 320	Christian Life and Thought (Waived with 58 post high school transfer credits.)	3
COR 310	Christian Faith and Scripture	3
COR 410	Christian Perspectives on Culture and Diversity	3
Cross Cultural	One diversity course and one non-Western history course	3 and 3
	(Waived with 58 post high school transfer credits.)	

Liberal Arts Skills Requirements (8-11 Credit Hours)

Liberal arts skills courses embrace the central role of language in thought and practice and teach students how to use language to participate in God's truth, goodness, and beauty, while caring for the whole person.

Writing

ENG 103	Basic Writing	3
	"C" or better required. Not listed in curriculum or counted in the total number of credits needed because it is assumed students meet this requirement prior to enrollment at SAU. May be satisfied through writing sample evaluation or transfer credit. Credit is not given for waiver.	
ENG 104	College Writing "C" or better required.	3
ENG 304	Writing and Research "C" or better required. May be fulfilled through writing sample evaluation. Academic advisors will quide students through the process. Credit is not given for waiver.	3

Oral Communication

Oral communication course equivalent to SPE 100 or SPE 212 (Minimum grade of "C." Minimum 2 credit hours.)

Liberal Arts Pathways (14 Minimum Credit Hours)

The following pathway courses can be fulfilled with a minimum of 2 credit hours for each course. The standard number of credit hours for these courses is listed in parentheses.

Fine Arts

An approved course in music or art (3)

ACADEMICS

Humanities

An approved course in literature, philosophy/religion, or modern foreign language (3)

Natural Science

An approved course in a lab science (4)

Mathematics

An approved course in math or computer science beyond introduction to applications (3)

Social Science

Approved courses from three different social science disciplines in psychology, sociology, history, economics, or political science (3 each = 9)

Total General Education Credit Hours for SAU Global Programs: 28-54

Cross Cultural Requirement

COR 374/375 Cross Cultural Studies (CCS) is required for all campus students who matriculate to SAU with fewer than 58 post-high school transfer credit hours. Students who earned 58 college credits or more after graduating from high school are not required to fulfill CCS but are encouraged to do so. Due to the significant educational benefit of campus student cross cultural study experiences, the university subsidizes the cost of one cross-cultural study.

Individualized option CCS (IOCCS COR 374/375) is offered as an honors tutorial course by petition for interested students with a cumulative GPA of 3.5 or higher. Once the petition is granted during the semester prior to the CCS experience, the student will participate in COR 374 tutorial, preparing for the COR 375 experience through general and specific cross-cultural study in small group meetings, readings, assignments and culture specific tests/quizzes.

All students must submit official immunization records to the CCS Office as a part of the application process. Students whose immunizations as defined by the Centers for Disease Control are incomplete will be required to provide documentation from their medical provider as having received the required series of immunizations before registering for their program. In instances where no childhood immunizations have been received, it may take a year or more to get all of the shots scheduled and completed. Students who philosophically object to immunizations should choose CCS programs that do not require immunizations. Additionally, students without the required immunizations necessary for specific programs will not be allowed to participate.

All students will be charged a \$150 nonrefundable study away fee to enroll in CCS.

For those students who cannot participate in the experiential CCS program, on-campus exception courses are offered through a petition process to fulfill the CCS requirement. Additionally, the University reserves the right to provide an alternative as an accommodation for students whose health/wellness creates significant challenges for participating in an off-campus experiential program or for those students who have been found responsible for significant violations of SAU community standards as outlined in the student handbook.

Alternative to Experiential CCS

If a student fails COR 374 but passes COR 375, the student must successfully pass for credit one on-campus exception course, which they have not completed in the past, to satisfy COR 374. If students fail COR 375, they must fulfill their CCS requirement by successfully completing for credit two on-campus exception courses. Such students should see the Director of CCS for an interview and a petition. Students for whom

Group III

BIB 408 The Bible in Global

Perspectives
• COM 368 Intercultural Comm. (3)

an off-campus experience is deemed impossible by the Faculty CCS Committee must successfully complete one course from two of the three groups listed below to meet the cross-cultural requirement.

Group I

- SOC 311 Racial and Ethnic Relations (3)
- SOC 327 Social Stratification (3)

Group II

- HIS 304 Geography & History of Russia & the Former Soviet Union (3)
- HIS 331 China, India, and Japan (3)
- HIS 332 Africa (3)
- HIS 334 Middle East (3)
- HIS 335 East Asia (3)
- SPA 323 Civ. and Culture of Spain (3)
- SPA 324 Latin American Civ. & Culture (3)

Students applying for consideration for on-campus exception courses must file a petition prior to registration to take the two courses, along with proper documentation for the request. Petition forms may be obtained from the CCS office in a scheduled interview with the Director of CCS. The petition will be reviewed and acted upon by the Faculty CCS Committee. Typical criteria for consideration for on-campus exception includes medical or psychological conditions in which it is deemed inadvisable to participate in the experiential courses or family hardship such as being a care giving parent to a minor child in which absence for the duration of the experiential course would be inadvisable, or legal issues related to leaving the country. These courses must be taken through SAU. These courses cannot be transferred to SAU to meet the CCS requirement.

Waiving the Cross Cultural Requirement

Citizens of a country other than Canada or the United States may petition to waive the CCS requirement. Petitions are available at the CCS office only after a scheduled interview with the director of CCS. Other students who have lived abroad for extensive periods of time or who have had experiences prior to matriculation that may qualify for a waiver of the requirement may file a petition at the CCS office, including instances where the student has lived outside the United States or Canada for two years after age 12 or one year after age 16. The Faculty CCS Committee will ask for specific documentation which will include a written paper. This paper must follow specific guidelines, show clearly how the student has met the CCS course objectives, and be submitted both on paper and electronically by attachment to the CCS office within two semesters of matriculation at Spring Arbor University.

Advanced Cross Cultural Studies

The COR 474/475 sequence is for students who have successfully completed the COR 374/375 sequence, or for those who have matriculated as a junior (at least 58 credits). Students might choose this sequence because of a desire to study an additional culture, to return to the destination of their COR 375 for more indepth research. Students in this advanced sequence typically join an existing COR 374/375 destination.

Academic Programs Listing

Degrees and Majors

Associate of Arts (A.A.)

Associate of Piano Pedagogy (A.P.P.)

Accounting (B.S.)

Biblical and Theological Studies (B.A.)

Biblical and Theological Concentration

Biblical Concentration Theological Concentration

Biochemistry (B.A., B.S.)

Biology (B.A.) Biology (B.S.)

> Cell and Molecular Concentration Environmental Science Concentration

Biology Secondary Education (B.A.)

Broadcasting (B.A.)

Business Administration (B.S.)

Chemistry (B.A., B.S.)

Chemistry Secondary Education (B.A.)

Christian Ministry (B.A.)
Communication Studies (B.A.)

Computer and Information Science (B.A.)

Criminal Justice (B.A.)
Cybersecurity (B.S.) (online)

Data Analytics (B.S.)

Digital Communication and Marketing (B.A.)

Electrical Engineering (B.S.) Elementary Education: PK-3 (B.A.)

Elementary Education: PK-3 and 3-6 (B.A.)

English (B.A.)

English Secondary Education (B.A.)

Finance (B.S.)

Financial Planning (B.S.)

General Studies (B.A.) (by permission only)

10 different concentrations available

Graphic Design (B.A.)

Health and Exercise Science (B.S.)

History (B.A.)

History Secondary Education (B.A.)

Human Services (B.S.) (online)

Individualized (B.A., B.S.) (by registrar approval) Integrated Science Secondary Education (B.A.)

International Business (B.S.)

Marketing (B.S.)
Mathematics (B.A.)

Mathematics Secondary Education (B.A.)

Mechanical Engineering (B.S.)

Music (B.A.)

Four optional concentrations available

Music Education (B.A.)

Instrumental Concentration Vocal Concentration

Nursing (Pre-licensure) (B.S.) (campus) Nursing (Post-licensure) (B.S.) (online) Organizational Management (B.S.) (video

conferencing)

Philosophy (B.A.)

Physics-Mathematics (B.A.)
Political Science (B.A.)
Professional Writing (B.A.)

Psychology (B.A.)

General Concentration

Working with Children Concentration

Social Studies (B.A.)

Social Studies Secondary Education (B.A.)

Social Work (B.S.W.) (campus, video conferencing,

and online)
Sociology (B.A.)

Spanish (B.A.)

Spanish Elementary Education (B.A.)
Spanish Secondary Education (B.A.)

Special Ed.-Elementary: Learning Disabilities (B.A.) Special Ed.-Secondary: Learning Disabilities (B.A.)

Speech (B.A.)

Sports Management (B.S.)

Studio Art (B.A.)

Video/Film Production (B.A.)

Minors

Accounting Chemistry Secondary Education

Arabic Computer Science
Art Criminal Justice
Biblical Studies Cybersecurity (online)

Biblical and Theological Studies English

plical and Theological Studies English

Biology English Secondary Education
Business Administration English Writing

Chemistry Entrepreneurship

Finance

Freelance and Personal Branding

French (suspended)

French Education (suspended)

Graphic Design

History

History Secondary Education Individualized (by approval only)

Intercultural Communication International Business

Management

Marketing

Mathematics
Mathematics Secondary Education

Music

Philosophy Political Science

Political Science Secondary Education

Pre-law

Psychology: General

Psychology Secondary Education

Psychology: Trauma, Growth, and Resiliency

Reading Sociology Spanish

Spanish Education

Teaching English as a Second Language

Technology Tools
Theological Studies

Institutional Endorsements and Other Endorsements

Accounting

Advertising and Public Relations

Arabic

Audio Production Biblical Languages

Business Administration

Child Welfare

Communication

Computer Coding

Corporate Finance

Digital Influence

Economics

Entrepreneurship

Ethical Decision Making

Finance

Financial Planning

Fitness

Freelance and Personal Branding

Graphic Design

Information Systems

International Business

International Education Leadership

Management

Management Information Systems

Management of Health Care Systems

Marketing

Photography

Professional Writing

Speech

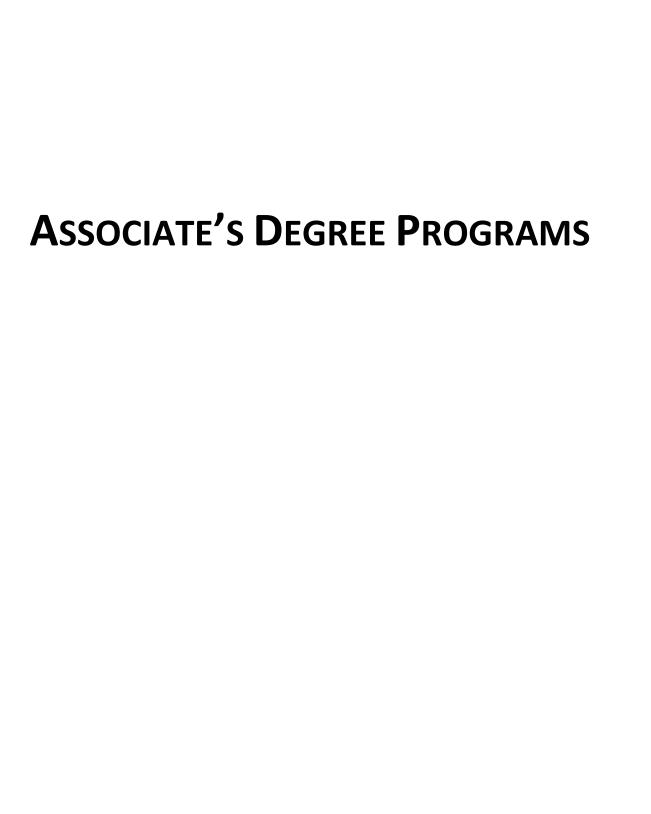
Teacher Education

Teaching English as a Second Language

Trauma, Growth, and Resiliency

Urban Education Leadership

Video Production Web Development



Associate of Arts (A.A.)

Course Number Community of Learners	Course Title	Credit Hours
* COR 100 or COR 110	Life in Community or Christ and the University Experience	2 or 3
* COR 200 or COR 320	Christ, Culture, and Diversity or Christian Life and Thought	2 or 3
		2 01 3
Liberal Arts Skills Course		2
^* ENG 104 HPR 101	College Writing Personal Fitness and Wellness (or other wellness course)	3 2
^ SPE 100	Oral Communication (or equivalent)	2
	· · · · · · · · · · · · · · · · · · ·	2
Bible, Theology, or Relig		
Choose at least 6 credit hou		2
BIB 217 BIB 218	Old Testament Survey New Testament Survey	3 3
COR 300 or COR 310	Christian Faith and Community or Christian Faith and Scripture	2 or 3
REL 394	World Religions	3
	_	J
Fine Arts and Humanitie		2
PHI 200	Introduction to Philosophy or equivalent	3
	ars from at least two different disciplines	2
ART 152	Art Foundations (see General Education for other possible options)	2
ENG 112 MUS 152	World Literature (or other survey literature course) Music Foundations (see General Education for other possible options)	3
Modern Language	Any non-English modern language course	2 3
		J
Mathematics/Computer		
Choose one of the following		4
CPS 201 MAT 104	Coding I Mathematics for the Liberal Arts (any math above MAT 100)	4 3
	iviatile matics for the Liberal Arts (any math above WAT 100)	3
Science Course		
Any natural science with	a lab (biology#, chemistry, physics, etc.)	4
Social Science Courses		
	ırs from at least two different disciplines.	
μ BUS 271	Business Law I	3
ECN 101	Introduction to Microeconomics (or similar ECN course)	3
GEO 221	Introduction to Geography	3
△ GEO/HIS 3XX	Non-Western Geography/History (GEO 331, 332, 333, or 334)	3
HIS 121 HIS 122	History of Civilizations I History of Civilizations II	3
HIS 141	United States to 1877	3
HIS 142	Unites States Since 1877	3
HIS 221	Black Experience in America	3
# POL 213	American National Government	3
# POL 214	State and Local Government	3
*# PSY 100	Introduction to Psychology	3
SOC 100	Modern Social Problems	3
# SOC 101	Introduction to Sociology	3
Δ SOC 311	Racial and Ethnic Relations	3
Electives to total 62 credit h	nours	22-25
Total Associate of A	ts Credit Hours	62

ASSOCIATE OF ARTS

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- A Recommended for Global students planning to pursue a bachelor's degree beyond the A.A. at SAU.
- * Recommended for students planning to eventually pursue a Bachelor of Social Work degree at SAU.
- ^μ Recommended for students planning to eventually pursue a bachelor's degree in business or organizational management major at SAU.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Course Substitutions and Transfer Courses

Students may petition the Office of Registration and Records for course equivalencies or substitutions for any courses except for COR 200 or COR 320. A petition does not guarantee approval. Transfer courses will be evaluated using only official transcripts from the transferring institution.

Associate of Arts Graduation Requirements

- Students must complete at least 30 credit hours and at least 10 of the last 20 credit hours at SAU.
- Students must have a minimum 2.0 cumulative GPA at SAU in order to graduate with an A.A. degree.
- Students must complete 62 credit hours and all course requirements specified in the degree program.
- Also see Extra Institutional Credit.

Continuing to a Bachelor's Degree

The A.A. degree may not be earned concurrently with a bachelor's degree, and the courses taken in the A.A. degree program may or may not apply to a specific SAU bachelor's degree. Students who eventually plan to continue on to bachelor's degree program at SAU should pay careful attention to prerequisite and required support courses in the bachelor's degree program they hope to pursue to prevent taking courses they will not need.

Students who complete an associate's degree at SAU must reapply to SAU to pursue at bachelor's degree. Admission to a bachelor's program at SAU is not automatic.

Cross Cultural Requirement

Students who eventually plan to pursue a bachelor's degree at SAU will meet the cross cultural studies requirement (COR 374/375) by taking SOC 311 Racial and Ethnic Relations and a non-Western geography/history course. These courses will not double count as a social science requirement and the cross-cultural studies requirement in the bachelor's degree program.

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Associate of Piano Pedagogy (A.P.P.)

Students in the Associate of Piano Pedagogy degree program should refer to the music major section of the catalog for specific admission requirements and other policies related to all students in programs administered by the Department of Music. This two-year program is designed for students who wish to focus on improving keyboard skills and learning techniques for teaching beginning piano lessons. It is also available in conjunction with other bachelor's degrees. Auditions are required for admission.

Course Number	Course Title	Credit Hours	
Music Courses			
MUS 105	Music Theory I: Literacy	3	
* MUS 106	Music Theory II: Harmony	3	
* MUS 205	Music Theory III: Orchestration	3	
MUS 212	Music Production I	2	
* MUS 250	Practicum in Pedagogy (2 semesters)	1 and 1	
* MUS 308	Survey of Keyboard Literature	2	
* MUS 309	Piano Pedagogy	3	
* MUS 310P2	Applied Piano Lessons w/Lab (4 semesters)	8	
* MUS 313 or MUS 314	History of Music Lit. since 1750 or History of Music Lit. to 1750	3	
* MUS 363	Conducting	2	
MUS 486	Professional Recital	0	
MUS Electives		10	
Total Music Credit Hours			

General Education (See General Education section for course options where no course is specified.)

The General Education curriculum below is specially designed for the A.P.P. degree. Students wishing to advance to a bachelor's degree will need to fulfill the requirements of the full General Education curriculum as specified in the bachelor's degree program.)

+	COR 100	Life in Community	2
+	COR 200	Christ, Culture, and Diversity	2
	BIB 217 or BIB 218	Old Testament Survey or New Testament Survey	3
۸*	ENG 104	College Writing	3
	HPR 101	Personal Fitness and Wellness	2
	PHI 200	Introduction to Philosophy	3
۸	SPE 100	Oral Communication	2
	Social Science	See General Education Section for approved courses	3
T	Total General Education Credit Hours		

Total Associate of Piano Pedagogy Credit Hours

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Associate of Piano Pedagogy Requirements

- Students must complete at least 30 credit hours and at least 10 of the last 20 credit hours at SAU.
- Students must have a minimum 2.0 cumulative GPA at SAU in order to graduate with an A.P.P. degree.
- Students must complete 62 credit hours and all course requirements specified in the degree program.

Continuing to a Bachelor's Degree

Students who complete an associate's degree at SAU must reapply to SAU to pursue at bachelor's degree. Admission to a bachelor's program at SAU is not automatic. Courses taken in the A.P.P. degree program may or may not apply to a specific SAU bachelor's degree. Students who eventually plan to continue on to bachelor's degree program at SAU should pay careful attention to prerequisite and required support courses in the bachelor's degree program they hope to pursue to prevent taking courses they will not need. All additional General Education requirements for a bachelor's degree at SAU must be completed.

BACCALAUREATE DEGREE PROGRAMS

Accounting (B.S.)

Course Number	Course Title	Credit Hours	
Major Courses			
-	General Education below with this notation $^\pi$.		
ACC 221	Principles of Accounting I	3	
* ACC 222	Principles of Accounting II	3	
* ACC 314	Cost and Managerial Accounting Theory	3	
* ACC 317	Intermediate Accounting I	3	
* ACC 318	Intermediate Accounting II	3	
* ACC 341	Cost and Managerial Accounting Practice	3	
* ACC 360	Accounting Information Systems	3	
* ACC 391	Individual Taxation	3	
* ACC 392	Organizational Taxation	3	
* ACC 404	Fund Accounting	3	
* ACC 442	Auditing Principles I	3	
* ACC 443	Auditing Principles II	3	
* ACC 447	Advanced Accounting	4	
* ACC 452	Accounting Theory	4	
BUS 107	Foundations of Leadership and Ethics	3	
BUS 162	Business Computer Applications	1	
BUS 271	Business Law I	3	
*π BUS 351	Statistics (see General Education below)	-	
BUS 354	Statistical Application for Business	1	
* BUS 372	Business Law II	3	
^π ECN 221 * ECN 222	Introduction to Microeconomics (see General Education below) Introduction to Macroeconomics	3	
		5 8	
Accounting Major Credit	nouis	30	
General Education			
Community of Learners (Core Courses		
⁺ COR 100	Life in Community	2	
⁺ COR 200	Christ, Culture, and Diversity	2	
 COR 374 and COR 375 	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3	
COR 300	Christian Faith and Community	2	
COR 400	Christian Life and Vocation	2	
Biblical Studies Courses			
* BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3	
Liberal Arts Skills Course	S		
^* ENG 104	College Writing	3	
^*# ENG 304	Writing and Research	3	
HPR 101	Personal Fitness and Wellness	2	
^ Speech	See General Education Section for approved courses	2	
Liberal Arts Pathways Courses			
Art	See General Education Section for approved courses	2	
History	See General Education Section for approved courses	3	
Literature	See General Education Section for approved courses	3	
*π BUS 351	Statistics (<i>Mathematics Pathway</i>)	3	
Music	See General Education Section for approved courses	2	
Philosophy	See General Education Section for approved courses See General Education Section for approved courses	3	
Science with lab	See General Education Section for approved courses	4	
π ECN 221	Introduction to Microeconomics (Social Science Pathway)	3	
General Education Credit		51	
Electives		11	
		120	
B.S. in Accounting Total Credit Hours		140	

ACCOUNTING

Symbol Key

- Orade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Accounting Learning Outcomes

Students in the accounting major will learn effective skills in communication, leadership, logic and critical thinking, and will demonstrate a strong intellectual capacity while developing competencies in account for a career that is in high demand. Students will build on the foundation of a biblical worldview to understand the importance of integrity, ethics, and content knowledge. Students will be prepared to successfully pass the CPA exam. Students will build on the foundation of a biblical worldview to understand the importance of integrity, ethics, and content knowledge.

CPA Exam Requirements

One of the world's leading licensing examinations, the CPA Examination serves to protect the public interest by helping to ensure that only qualified individuals become licensed as Certified Public Accountants (CPAs). This major will help prepare students to take the Certified Public Accounting (CPA) examination. In many states, including Michigan, students planning to take the CPA exam will need to earn 150 semester hours of academic credit. The additional 26 credit hours needed for the CPA exam may be earned by taking additional undergraduate and/or graduate courses. Please consult with your academic advisor and/or the State Board of Accountancy for specific course and degree requirements.

Program Oversight

The accounting major is overseen by the Gainey School of Business. Courses with ACC, BUS, ECN, ENT, FIN, IBS, MIS, MKT, and ORM numbers are administered by this department. Questions about the major should be directed to the school dean.

Biblical and Theological Studies (B.A.)

Course Number Major Courses	Course Title	Credit Hours
BIB 220 PHI 314	Biblical Interpretation Ethics	3 3
REL/HIS 343 THE 206	History of Christianity Doctrines of the Christian Faith	3 3
Choose one Old Testament		J
§ BIB 302	Old Testament Historical Books	3
BIB 303	Prophets and Politics	3
BIB 304	Genesis: Creation and Fall	3
BIB 404	Biblical Wisdom and Postmodern Culture	3
	t Course from the following [§]	_
BIB 313	Four Gospels; One Jesus	3
BIB 333 § BIB 407	Paul: Preacher, Pastor, and Theologian	3
010 407	Revelation, Eschatology, and the End of the World	3
Choose one Bible course fro BIB 308	m the following ³ History of the Bible	3
HIS/BIB 403	History of Biblical Interpretation and Criticism: 1750-1950	3
BIB 408	The Bible in Global Perspectives	3
BIB 490	Religion Honors Project	3
Choose one philosophy cou	•	
* PHI 301	Great Thinkers of the Western World	3
PHI/POL 316	Western Political Thought	3
PHI 318	War and Peace	3
* PHI 334	Critical Thinking	3
PHI 381	Philosophy of Religion	3
PHI/REL 394	World Religions	3
* PHI 402	Environmental Ethics	3
* PHI 490	Honors Thesis Project	3
Choose one theology course		2
 THE 307 THE 318 	The Holy Spirit, Spiritual Gifts, and Spirit Movements	3
THE 320	Christian Origins: Heretics and Saints Luther, Calvin, and the European Reformations	3 3
§ THE 405	The Problem of Evil	3
* THE 411	From Modern to Postmodern Theology	3
* THE 490	Honors Thesis Project	3
Biblical and Theological Studies Major Courses Choose one concentration from the following		
_		
Biblical and Theological Co [§] Choose one Old Testame	ent, New Testament, philosophy, and theology course not already used.	3 each = 12
Biblical Concentration Cour		
Choose one biblical languag		3 each = 6
GRE 331 and *GRE 332	Elementary Biblical Greek I and II	3 and 3
HEB 331 and *HEB 332	Elementary Biblical Hebrew I and II	3 and 3
Theological Concentration Courses		
	and three theology courses not already used.	3 each = 12
Biblical and Theological	Studies Major Credit Hours	39

BIBLICAL AND THEOLOGICAL STUDIES

General Education Community of Learners Core Courses

community of Ecamic	s core courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300 or CMI 361	Christian Faith and Community or Christian Spirituality and Formation	2 or 3
COR 400	Christian Life and Vocation	2
Biblical Studies Course	es	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cour	rses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways	Courses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cre	edit Hours	51-52
Electives		29-30
R A in Riblical and	Theological Studies Total Credit Hours	120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- * Possible waiver with a specified number of transfer credits upon first-time admission.
- [§] Any upper-level course with the same letter prefix except HIS (e.g. BIB) not already used may substitute by approved petition.

Biblical Studies Learning Outcomes

Students in the biblical studies major will be prepared for graduate school or seminary. Students will engage with exegetical methods of Christian Scripture. Students will be able to address theological concerns that are not only part of the ancient world but that also face the contemporary church. Students will articulate an understanding of the Wesleyan Quadrilateral: Scripture, tradition, reason and experience.

Program Admission Requirements

Application to the major is required.

Program Oversight

The biblical and theological studies major is overseen by the Department of Theology. Courses with BIB, CMI, GRE, HEB, PHI, REL and THE numbers are administered by this department. Questions about the major should be directed to the department chair.

Biochemistry (B.A.)

Dioenemistry (L	·····	
Course Number	Course Title	Credit Hours
Major Courses		
^π BIO 111	Introductory Biology I (see General Education below)	-
BIO 112	Introductory Biology II	4
* BIO 305	Principles of Genetics	4
* BIO 352	Microbiology	3
* BIO 401 or BIO 406	Cell Biology or Molecular Genetics	3 or 4
CHE 111 and CHE 112	General Chemistry I and General Chemistry II	4 and 4
* CHE 201	Organic Chemistry I	4
* CHE 202	Organic Chemistry II	4
* CHE 301	Analytical Chemistry	4
* CHE 440	Research in Biology and Chemistry	3
* CHE 472	Biological Chemistry I	5
* CHE 473	Biological Chemistry II	4
^*π MAT 201	Calculus I (see General Education below)	-
* PHY 201	General Physics I	4
* PHY 202	General Physics II	4
Choose one of the following	·	
BIO/CHE 390	Independent Study (1-4 credit hours available)	3
BIO/CHE 460	Research Project (up to 4 credit hours available)	3
BIO/CHE 490	Honors Research (up to 6 credit hours available)	3
•	· ·	_
Total Credit Hours Requir	ed for the Biochemistry Major	57-58
General Education		
Community of Learners C	ore Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
	Old Tastament Curvey and New Tastament Curvey	2 and 2
* BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Courses	3	
^{^*} ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	urses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π MAT 201	Calculus I (Mathematics Pathway)	4
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
^т BIO 111	Introductory Biology I (Science Pathway)	4
Social Science	See General Education Section for approved courses	3
General Education Credit		
	TIVUIS	55
Electives		7-8
B.A. in Biochemistry	Credit Hours	120
Symbol Key		-
Symbol Key	Spring Arbor University 2022 2022 Undergraduate Academic Catalog	

BIOCHEMISTRY (B.A.)

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\mbox{\tiny π}}$ A major course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Biochemistry Learning Outcomes

The biochemistry major prepares students for work and further study in perhaps the most exciting area of science — the interface between biology, chemistry and physics. This major provides students with a broad understanding of life at the cellular and molecular level, and prepares them for careers in biotechnology, biomedical research, or health care.

Program Oversight

The biochemistry major is overseen by the School of Natural Science. Courses with ASI, BIO, CHE, NSC, and PHY numbers are administered by this school. Questions about the major should be directed to the dean.

Biochemistry (B.S.)

Course Number	Course Title	Credit Hours
Major Courses [™] BIO 111	Introductory Biology I (see General Education below)	
BIO 112	Introductory Biology II	4
* BIO 305	Principles of Genetics	4
* BIO 352	Microbiology	3
* BIO 401 or BIO 406	Cell Biology or Molecular Genetics	3 or 4
CHE 111	General Chemistry I	4
CHE 112	General Chemistry II	4
* CHE 201	Organic Chemistry I	4
* CHE 202	Organic Chemistry II	4
* CHE 301	Analytical Chemistry	4
* CHE 411 or CHE 412	Physical Chemistry I or Physical Chemistry II	4
* CHE 440	Research in Biology and Chemistry	3
* CHE 472	Biological Chemistry I	5
* CHE 473	Biological Chemistry II	4
^*π MAT 201	Calculus I (see General Education below)	-
* MAT 202	Calculus II	4
^* PHY 211	Modern University Physics I	4
* PHY 212	Modern University Physics II	4
Choose one of the following		
BIO/CHE 460	Research Project (up to 4 credit hours)	3
BIO/CHE 490	Honors Research (up to 6 credit hours)	3
Biochemistry B.S. Major	Credit Hours	65-66
General Education		
Community of Learners (Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
* BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Courses	S	
^{^*} ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
[^] Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Cours		2
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π MAT 201	Calculus I (Mathematics Pathway)	4
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy ™ BIO 111	See General Education Section for approved courses	3
^π BIO 111 Social Science	Introductory Biology I (Science Pathway)	4
Total General Education	See General Education Section for approved courses Credit Hours	3 55
Total B.S. in Biochem		120-121
i otai bisi ili biotileli	nsu y Greuit Hours	120-121

BIOCHEMISTRY (B.S.)

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

Biochemistry Learning Outcomes

The biochemistry major prepares students for work and further study in perhaps the most exciting area of science — the interface between biology, chemistry and physics. This major provides students with a broad understanding of life at the cellular and molecular level, and prepares them for careers in biotechnology, biomedical research, or health care.

ASBMB Standards

The curriculum for Bachelor of Science meets the recommendations of the American Society for Biochemistry and Molecular Biology and requires a combination of selected courses from biology, chemistry, physics and mathematics.

Program Oversight

The biochemistry major is overseen by the School of Natural Science. Courses with ASI, BIO, CHE, NSC and PHY numbers are administered by this school. Questions about the major should be directed to the dean.

Biology (B.A.)

Course Number	Course Title	Credit Hours	
Major Foundational Cour	rses		
^π BIO 111	Introductory Biology (see General Education below)	-	
BIO 112	Introductory Biology II	4	
BIO 170	Freshman Seminar	1	
* BIO 305	Principles of Genetics	4	
* BIO 362	Principles of Ecology	4	
BIO 480	Senior Seminar	2	
CHE 111	General Chemistry I	4	
* CHE 201	Organic Chemistry I	4	
*π HES 351 or MAT 351	Statistics (see General Education below)	-	
Choose from the biology ele	ctives listed below to total at least 11 credit hours		
ASI 300-400	Au Sable Institute courses	4	
* BIO 261	Human Anatomy	4	
* BIO 321	Parasitology	4	
* BIO 342	Vertebrate Zoology	4	
* BIO 352	Microbiology	4	
* BIO 365	Introduction to Pharmacology	3	
* BIO 401	Cell Biology	3	
* BIO 404	Human Physiology	4	
* BIO 406	Molecular Genetics	4	
* BIO 472	Biological Chemistry I	5	
* BIO 473	Biological Chemistry II	4	
* BIO XXX	Other "limited" Biology courses may substitute by petition if offered.	-	
Biology (B.A.) Major Cred	lit Hours	34	
General Education			
Community of Learners C	Core Courses		
⁺ COR 100	Life in Community	2	
⁺ COR 200	Christ, Culture, and Diversity	2	
+ COR 374 and COR 375	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3	
COR 300	Christian Faith and Community	2	
COR 400	Christian Life and Vocation	2	
Biblical Studies Courses			
† BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3	
Liberal Arts Skills Courses			
^* ENG 104	College Writing	3	
^*# ENG 304	Writing and Research	3	
HPR 101	Personal Fitness and Wellness	2	
^ Speech	See General Education Section for approved courses	2	
Liberal Arts Pathways Courses			
Art	See General Education Section for approved courses	2	
History	See General Education Section for approved courses	3	
, Literature	See General Education Section for approved courses	3	
$^{*\pi}$ HES 351 or MAT 351	Statistics (Mathematics Pathway)	3	
Music	See General Education Section for approved courses	2	
Philosophy	See General Education Section for approved courses	3	
^π BIO 111	Introductory Biology (Science Pathway)	4	
Social Science	See General Education Section for approved courses	3	
General Education Credit Hours		54	
Electives		32	
Total B.A. in Biology Credit Hours		120	
Total D.A. III Divivgy Greatt Hours		120	

BIOLOGY (B.A.)

Symbol Key

- [^] Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Biology Learning Outcomes

Students in the Bachelor of Science in biology major will engage with functions of organisms and their parts, interactions of organisms with their environments, and mechanisms for continued survival. Students will experience hands-on laboratory and/or field work. Students will examine biology from a Christian perspective and demonstrate scientific research abilities. Students will cultivate an appreciation for life and the moral integrity to use knowledge wisely, enabling them to improve quality of life for individuals as well as the quality of the earth's environment.

Upper-level Course Requirements

Depending on which courses students choose in the biology major, they may not acquire 36 upper-level credit hours (300-400) in their major coursework. However, students are required to complete 36 credit hours of upper-level courses in order to graduate. Students in the B.S. in biology program should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Departmental Assessment

Biology majors are required to pass a departmental examination before graduation.

Program Oversight

The biology majors are overseen by the Department of Biology in the School of Natural Science Courses with ASI and BIO numbers are administered by this school. Questions about the major should be directed to the dean.

Biology (B.S.)

Diology (B.S.)			
Course Number	Course Title	Credit Hours	
Major Courses			
π BIO 111	Introductory Biology (see General Education below)	_	
BIO 112	Introductory Biology II	4	
BIO 170	Freshman Seminar	1	
* BIO 305	Principles of Genetics	4	
* BIO 362	Principles of Ecology	4	
BIO 480	Senior Seminar	2	
* CHE 111	General Chemistry I	4	
* CHE 201	•	4	
*π HES 351 or MAT 351	Organic Chemistry I Statistics (see General Education below)	-	
Choose one course from the			
* BIO 385	Practicum	3	
* BIO 450	Internship	3	
* BIO 460	Research	3	
* BIO 490	Honors Research	3	
Choose one concentration b	pelow		
	gy Concentration Courses		
* CHE 112	General Chemistry II	4	
* CHE 202	Organic Chemistry II	4	
* PHY 201 or PHY 211	General Physics I or Modern University Physics I	4	
* BIO 352	Microbiology	4	
* BIO 472	Biological Chemistry I	5	
	lowing to total at least 10 credit hours	3	
* BIO 261	_	4	
	Human Anatomy	4 4	
* BIO 321	Parasitology		
* BIO 330	Plant Organismal Biology	4	
* BIO 342	Vertebrate Zoology	4	
* BIO 345	Plant Cellular and Molecular Biology	4	
* BIO 365	Introduction to Pharmacology	3	
* BIO 401	Cell Biology	3	
* BIO 404	Human Physiology	4	
* BIO 406	Molecular Genetics	4	
* BIO 458	Human Development	4	
* BIO 473	Biological Chemistry II	4	
Environmental Biology C	oncentration Courses		
* CPS 206 or ASI 362	Geographic Info Systems or Environmental Applications for GSI	4	
* PHY 120, 201 or 211	Earth Science, General Physics I or Modern University Physics I	4	
BIO 206	Genes and Speciation	3	
* BIO 330 or BIO 342	Plant Organismal Biology or Vertebrate Zoology	4	
One ASI course in a May s	session	4	
Two ASI courses in a Sum	mer I and/or Summer II session	4 each	
Biology B.S. Major Credit Hours		53-57	
General Education			
Community of Learners (Core Courses		
⁺ COR 100	Life in Community	2	
+ COR 200	Christ, Culture, and Diversity	2	
⁺ COR 374	Preparing for Cross Cultural Studies	1	
+ COR 375	Cross Cultural Studies	3	
COR 300	Christian Faith and Community	2	
COR 400	Christian Life and Vocation	2	
	Christian Life and Vocation	۷	
Biblical Studies Courses	Old Tootomont Curvey	2	
* BIB 217	Old Testament Survey	3	

BIOLOGY (B.S.) BIB 218 New Testament Survey 3 **Liberal Arts Skills Courses** ^* ENG 104 College Writing 3 ^*# ENG 304 Writing and Research 3 **HPR 101** Personal Fitness and Wellness 2 Speech See General Education Section for approved courses 2 **Liberal Arts Pathways Courses** Art 2 See General Education Section for approved courses History See General Education Section for approved courses 3 See General Education Section for approved courses 3 Literature $^{*\pi}$ HES 351 or MAT 351 3 Statistics (Mathematics Pathway) Mathematics See General Education Section for approved courses 3 Music See General Education Section for approved courses 2 Philosophy See General Education Section for approved courses 3 **BIO 111** Introductory Biology (Science Pathway) 4 Social Science See General Education Section for approved courses 3 **General Education Credit Hours** 54 Electives 9-13

120

Symbol Key

^ Grade of "C" or better required.

Total B.S. in Biology Credit Hours

- * This course has a prerequisite.
- * Possible waiver by exam.
- ^π A major course that meets a General Education requirement.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Biology Learning Outcomes

Students in the Bachelor of Science in biology major will engage with functions of organisms and their parts, interactions of organisms with their environments, and mechanisms for continued survival. Students will experience hands-on laboratory and/or field work. Students will examine biology from a Christian perspective and demonstrate scientific research abilities. Students will cultivate an appreciation for life and the moral integrity to use knowledge wisely, enabling them to improve quality of life for individuals as well as the quality of the earth's environment. Biology majors are required to pass a departmental examination before graduation.

Strongly Recommended Support Courses

These courses are not required for the B.S. in Biology, but they are strongly recommended by the department. (See Course Descriptions for information about prerequisites.) MAT 201 Calculus I (4) and PHY 202 General Physics II (4)

Upper-level Course Requirements

Depending on which courses students choose in the biology major, they may not acquire 36 upper-level credit hours (300-400) in their major coursework. However, students are required to complete 36 credit hours of upper-level courses in order to graduate. Students in the B.S. in biology program should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Program Oversight

The biology majors are overseen by the Department of Biology in the School of Natural Science. Courses with ASI and BIO numbers are administered by this school. Questions about the major should be directed to the dean.

Biology Secondary Education (B.A.)

Course Number	Course Title	Credit Hours
Required Support Course		_
* CHE 101 or 111	Introductory Chemistry I or General Chemistry I	4
* CHE 112	General Chemistry II	4
* CHE 201 *π MAT 351 or HES 351	Organic Chemistry I	4
	Statistics or Statistics for Health Sciences (see General Education below)	-
Major Content Area Coul		
^{^π} BIO 111	Introductory Biology (see General Education below)	-
^ BIO 112	Introductory Biology II	4
BIO 200	Genes and Speciation	3
BIO 201	Human Anatomy	4
BIO 305	Principles of Genetics	4
DIO 332	Microbiology	4
DIO 302	Principles of Ecology Senior Seminar	4 2
^ BIO 480 Choose one of the following		2
^* BIO 321	Parasitology	4
^* BIO 330	Plant Organismal Biology	4
^* BIO 342	Vertebrate Zoology	4
^* BIO 345	Plant Cellular and Molecular Biology	4
	ology Content Area Credit Hours	3 7
		37
-	Professional Program Courses	
§ EDU 140/140L	Exploring Critical Skills for the Professional Educator and Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^{^*} EDU 271 ^{§*} EDU 336	The Diverse Learner	4
LDO 330	Teaching at the Secondary Level (or minor methods course)	2
LDO 343	Teaching Science at the Secondary Level	2
EDO 300	Integrating Technology in Education	2 3
^* EDU 425 ^{‡*} EDU 429	Reading Development in Middle and Secondary Content Areas Effective Classroom Management, Assessment and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
	fessional Program Credit Hours	33
•	ressional Frogram Credit Hours	33
General Education		
Community of Learners C		
⁺ COR 100	•	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Courses	s	
§* ENG 104	College Writing	3
§*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^# Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co		_
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
-		

BIOLOGY SECONDARY EDUCATION

В.	A. in Biology Seco	ndary Education Total Credit Hours	141
Ch	Choose a certifying minor (See Teacher Education for information)		20
General Education Credit Hours		51	
*π	EDU 230	Educational Psychology (Social Science Pathway)	3
	BIO 111	Introductory Biology (Science Pathway)	4
	Philosophy	See General Education Section for approved courses	3
	Music	See General Education Section for approved courses	2
* π	MAT 351 or HES 351	Statistics (Mathematics Pathway)	3
	Literature	See General Education Section for approved courses	3

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible alternative course or exam option to fulfill this requirement.
- $^{\pi}$ A major, required support, or professional program course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Strongly Recommended Support Courses

PHY 102 Conceptual Physics (4) is not required, but it is strongly recommended by the department. (See Course Descriptions for information about prerequisites.)

Biology Secondary Education Learning Outcomes

Students in the Bachelor of Arts in biology education major will engage with functions of organisms and their parts, interactions of organisms with their environments, and mechanisms for continued survival. Students will experience hands-on laboratory and/or field work. Students will examine biology from a Christian perspective and demonstrate scientific research abilities. Students will cultivate an appreciation for life and the moral integrity to use knowledge wisely, enabling them to improve quality of life for individuals as well as the quality of the earth's environment.

Teacher Education and Certification Information

The biology faculty is as concerned with nonacademic qualities as biology concepts. With this concern, the faculty will be monitoring character, attitude and behavioral qualities. This information will have a direct impact on recommendation of a student for admission to the teacher education program. Students in this program should be aware of schedules for major events like the Medical College Admission Test and the Michigan Test for Teacher Certification (MTTC) if certifying to teach.

Minimum GPA Requirement

Students must have a 3.0 cumulative GPA in the major and minor content areas to be eligible for certification.

Program Oversight

The biology major is overseen by the Department of Biology. Questions about the major should be directed to the dean. The secondary education professional portion of this degree program is overseen by the School of Education. More information about teacher certification is in the Teacher Education section.

Broadcasting (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
Other major courses listed in	General Education below with this notation $^{\pi}$.	
AUD 174	Radio Production	3
AUD 302	Podcasting	1
AUD 321	Sound Design	3
COM 100	Introduction to Communication	3
COM 110	Communication Technology	3
^*π COM 212	Rhetoric (see General Education below)	-
* COM 324	Web Content and Management	3
COM 385	Practicum	1
* COM 399	Communication Portfolio	1
* COM 480	Senior Seminar	1
SPE 342	Oral Interpretation and Voice	3
VID 202	Video Production	4
* VID 306	Advanced Video Production	4
WRT 216	Writing for the Media	3
WRT 310	Multimedia Reporting	3
Total Broadcasting Maj	or Credit Hours	36
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses	S	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cours	es	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^*π COM 212	Rhetoric	3
Liberal Arts Pathways C	Courses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
Total General Education	n Credit Hours	52
Electives		32
Total B.A. in Broadcasting Credit Hours		120

BROADCASTING

Symbol Key

- [^] Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ^π A major course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Broadcasting Learning Outcomes

This award-winning program prepares students for careers in broadcasting via radio, television, or the web in areas both on and off the air. The hands-on approach allows students to produce creative work from the very beginning of the program, practice teamwork and keep meet deadlines. Students will also develop skill in writing, speaking, social media management and storytelling. A unique aspect of this program is its early focus on hands-on experience, and an emphasis on ethics and creativity.

Technology Requirements

The Department of Media and Visual Arts strongly encourages students to enter the program with a current MacBook Pro. Students must maintain a subscription to the Adobe Creative Cloud software package.

Program Progress Check

Student progress will be assessed by the department at both the freshman and sophomore levels (first year for transfer students). Students must have a cumulative 2.5 GPA and pass the progress check to continue in the program.

COM 212 Rhetoric Requirement for Transfer Students

Students who transfer to SAU or who transfer from a different major at SAU to the broadcasting major and have previously taken a public speaking course may fulfill the COM 212 Rhetoric requirement with the public speaking course and by taking the 1 credit hour COM 232 Readings in Rhetoric course.

Extracurricular Opportunities

SAU Radio offers experience at both The Arbor, our student station, and Home.fm, our professional station. There are opportunities to write, shoot, edit, and appear in client, department, and chapel videos, as well as Will Shoot for Credit short films.

Study Abroad

Students may substitute coursework from the American Studies Washington D.C. semester offered by the Coalition of Christian Colleges and Universities (www.cccuglobaled.org) or other SAU approved semester programs. Admission to these programs require a separate application process. Consultation with the dean and Office of Registration and Records is required to determine how requirements of the program will be satisfied in a study abroad opportunity.

Program Oversight

The broadcasting major is overseen by the Department of Media and Visual Arts. Courses with ART, AUD, FAS and VID numbers are administered by this department. Questions about the major should be directed to the department chair.

Business Administration (B.S.)

	ourse Number Iajor Courses	Course Title	Credit Hours
141	ACC 221	Principles of Accounting I	2
*	ACC 221 ACC 222	Principles of Accounting I	3 3
	BUS 107	Foundations of Leadership and Ethics	3
	BUS 162	Business Computer Applications	1
	BUS 232	Business Seminar	1
	BUS 271	Business Law I	3
	BUS 325 or *BUS 432	Principles of Management or Human Resource Management	3
*π	BUS/HES/MAT/PSY 351	Statistics (see General Education below)	3
	BUS 354	Statistical Application for Business	1
	BUS 385	Practicum	3
	BUS 403	Argument and Persuasion for Business	3
*	BUS 424		4
*	BUS 435	Strategic Management Business and Government	3
π	ECN 221		- -
*	ECN 221 ECN 222	Introduction to Microeconomics (see General Education below)	
		Introduction to Macroeconomics	3 3
*	FIN 268 or FIN 200	Personal Finance or Introduction to Financial Planning	
	FIN 362	Principles of Finance	3
	IBS 305 or IBS 223	Principles of Int'l Business or Biblical Foundations of Int'l Business	3
	MKT 221	Marketing Principles	3
ο.	SDL 120	Life/Work Planning	1
	usiness Administration I	Major Credit Hours	47
	eneral Education		
	ommunity of Learners C		_
+	COR 100	Life in Community	2
+	COR 200	Christ, Culture, and Diversity	2
+	COR 374	Preparing for Cross Cultural Studies	1
+	COR 375	Cross Cultural Studies	3
	COR 300	Christian Faith and Community	2
	COR 400	Christian Life and Vocation	2
	iblical Studies Courses		
+	BIB 217	Old Testament Survey	3
+	BIB 218	New Testament Survey	3
	beral Arts Skills Courses		
	ENG 104	College Writing	3
^*#	[‡] ENG 304	Writing and Research	3
	HPR 101	Personal Fitness and Wellness	2
^	Speech	See General Education Section for approved courses	2
Li	beral Arts Pathways Co	urses	
	Art	See General Education Section for approved courses	2
	History	See General Education Section for approved courses	3
	Literature	See General Education Section for approved courses	3
*π	BUS/HES/MAT/PSY 351	Statistics (Mathematics Pathway)	3
	Music	See General Education Section for approved courses	2
	Philosophy	See General Education Section for approved courses	3
	Science with lab	See General Education Section for approved courses	4
π	ECN 221	Introduction to Microeconomics (Social Science Pathway)	3
G	eneral Education Credit	Hours	51
Ele	ectives		22
T	otal B.S. in Business	Administration Credit Hours	120

BUSINESS ADMINISTRATION

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ^π A major course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Business Administration Learning Outcomes

Students in the business administration major will demonstrate effective skills in communication, leadership, logic and critical thinking, and a strong intellectual capacity while developing competency in a wide range of areas fitting for a career in the business world. Students will articulate a biblical worldview and the importance of integrity, ethics, and content knowledge. Students will be prepared for employment in business administration or for entering a graduate program upon graduation.

Program Assessment

As part of ongoing assessment of program goals and learning outcomes, business administration students may be required to take a comprehensive exam during the program's capstone course. The assessment is a part of the capstone course grade.

Program Oversight

The business administration major is overseen by the Gainey School of Business. Courses with ACC, BUS, ECN, ENT, FIN, IBS, MIS, MKT, and ORM numbers are administered by this department. Questions about this major should be directed to the school dean.

Chemistry (B.A.)

Course Number	Course Title	Credit Hours
Major Foundational Cou	rses	
* ^π CHE 111	General Chemistry I (see General Education below)	-
* CHE 112	General Chemistry II	4
* CHE 201	Organic Chemistry I	4
* CHE 202	Organic Chemistry II	4
* CHE 301	Analytical Chemistry	4
* CHE 411	Physical Chemistry I	4
* CHE 440	Research in Biology and Chemistry	3
* ^π MAT 201	Calculus I (see General Education below)	-
* PHY 201	General Physics I	4
* PHY 202	General Physics II	4
Chemistry B.A. Major Cr	edit Hours	31
General Education		
Community of Learners	Core Courses	
+ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
+ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Course	s	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
[^] Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	ourses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
*π MAT 201	Calculus I (Mathematics Pathway	4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
*π CHE 111	General Chemistry I (Science Pathway)	4
Social Science	See General Education Section for approved courses	3
General Education Credi	t Hours	52
Electives		37
Total B.A. in Chemistry Credit Hours		120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\mbox{\tiny π}}$ A major course that meets a General Education requirement.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

CHEMISTRY (B.A.)

Upper-level Course Requirements

Depending on which courses students choose in the chemistry majors, they may not acquire 36 upper-level credit hours (300-400) in their major coursework. However, students are required to complete 36 credit hours of upper-level courses in order to graduate. Students in the chemistry majors should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Chemistry Learning Outcomes

Students in chemistry majors will demonstrate an understating of the atomic and molecular behavior of systems. Chemistry students will attempt to explain phenomena in systems that range in size from electrons to entire galaxies. Students in the majors will complete a research project and attendant thesis to prepare them for graduate school and a wide variety of careers including teaching, law, pharmaceutical research, medicine, research science, and laboratory technology.

Research Opportunities

The chemistry faculty recognizes that research is a vital component of undergraduate education and offers research experience to all interested students. Students need not be chemistry majors to undertake research for direct academic credit.

Program Oversight

The chemistry major is overseen by the Department of Chemistry. Courses with CHE and NSC numbers are administered by this school.

Chemistry (B.S.)

Course Number	Course Title	Credit Hours
Major Foundational Cou	ırses	
*π CHE 111	General Chemistry I (see General Education below)	-
* CHE 112	General Chemistry II	4
* CHE 201	Organic Chemistry I	4
* CHE 202	Organic Chemistry II	4
* CHE 301	Analytical Chemistry	4
* CHE 411	Physical Chemistry I	4
* CHE 440	Research in Biology and Chemistry	3
CHE 460 or CHE 490	Chemistry Research or Chemistry Honors Project	3
^*π MAT 201	Calculus I (see General Education below)	-
* MAT 202	Calculus II	4
^* PHY 211	Modern University Physics I	4
* PHY 212	Modern University Physics II	4
Chemistry B.S. Major Cr	edit Hours	38
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Course	es	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Cou	rses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π MAT 201	Calculus I (Mathematics Pathway)	4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
$^{*\pi}$ CHE 111	General Chemistry I (Science Pathway)	4
Social Science	See General Education Section for approved courses	3
Total General Education	Credit Hours	52
Electives		30
Total B.S. in Chemistry Credit Hours		120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\mbox{\tiny π}}$ A major course that meets a General Education requirement.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

CHEMISTRY (B.S.)

Strongly Recommended Support Courses

MAT 311 Differential Equations is not required for the B.S. in chemistry program, but it is strongly recommended by the department. (See Course Descriptions for information about prerequisites.) Also, CHE 472 Biological Chemistry I is strongly recommended for students who intend to pursue a graduate degree in chemistry.

Upper-level Course Requirements

Depending on which courses students choose in the chemistry majors, they may not acquire 36 upper-level credit hours (300-400) in their major coursework. However, students are required to complete 36 credit hours of upper-level courses in order to graduate. Students in the chemistry majors should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Chemistry Learning Outcomes

Students in chemistry majors will demonstrate an understating of the atomic and molecular behavior of systems. Chemistry students will attempt to explain phenomena in systems that range in size from electrons to entire galaxies. Students in the majors will complete a research project and attendant thesis to prepare them for graduate school and a wide variety of careers including teaching, law, pharmaceutical research, medicine, research science, and laboratory technology.

Research Opportunities

The chemistry faculty recognizes that research is a vital component of undergraduate education and offers research experience to all interested students. Students need not be chemistry majors to undertake research for direct academic credit.

Program Oversight

The chemistry major is overseen by the Department of Chemistry. Courses with CHE and NSC numbers are administered by this school.

Chemistry Secondary Education (B.A.)

Course Number	Course Title	Credit Hours
Required Support Course		01 0410 110 410
^* π MAT 201	Calculus I (see General Education below)	_
* MAT 202	Calculus II	4
*^ PHY 211	Modern University Physics I	4
* PHY 222	Modern University Physics II	4
Major Content Area Cou	rses	
^*π CHE 111	General Chemistry I (see General Education below)	_
^* CHE 112	General Chemistry II	4
^* CHE 201	Organic Chemistry I	4
^* CHE 202	Organic Chemistry II	4
^* CHE 301	Analytic Chemistry	4
^* CHE 411	Physical Chemistry I	4
^ CHE 440	Research in Biology and Chemistry	3
Required Support and Cl	hemistry Content Area Credit Hours	35
Secondary Education	Professional Program	
§ EDU 140/140L	Exploring Critical Skills for the Professional Educator and Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
§* EDU 336	Teaching at the Secondary Level (or minor methods course)	2
§* EDU 343	Teaching Science at the Secondary Level	2
^* EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^{‡*} EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
Secondary Education Pro	ofessional Program Credit Hours	33
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
† BIB 218	New Testament Survey	3
Liberal Arts Skills Course	S	
§* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^# Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	purses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π MAT 201	Calculus I (Mathematics Pathway)	4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
^*π CHE 111	General Chemistry I (Science Pathway)	4

CHEMISTRY SECONDARY EDUCATION

^{^π} EDU 230	Educational Psychology (Social Science Pathway)	3
General Education	Credit Hours	51
Choose a certifying minor (see Teacher Education for more information)		20
B.A. in Chemistry Secondary Education Total Credit Hours		139

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible alternative course or exam option to fulfill this requirement.
- ^π A major, required support, or professional program course that meets a General Education requirement
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Chemistry Learning Outcomes

Students in chemistry majors will demonstrate an understating of the atomic and molecular behavior of systems. Chemistry students will attempt to explain phenomena in systems that range in size from electrons to entire galaxies. Students in the chemistry secondary education major will be prepared for graduate school and to teach chemistry in secondary schools in Michigan.

Minimum GPA Requirement

Students must have a 3.0 cumulative GPA in the major and minor content areas to be eligible for certification.

Teacher Education Admission Recommendation

The chemistry faculty is as concerned with nonacademic qualities as chemistry concepts. With this concern, the faculty will be monitoring character, attitude, and behavioral qualities. This information will have a direct impact on recommendation of a student for admission to the teacher education program.

Teacher Certification

Students in this program should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC).

Program Oversight

The chemistry secondary education major is overseen by the School of Natural Sciences. Courses with ASI, BIO, CHE, NSC, and PHY numbers are administered by this school. The secondary education professional portion of this degree program is overseen by the School of Education. For additional teacher education policies and requirements, please refer to the Teacher Education section of this catalog.

Christian Ministry (B.A.)

Course Number Major Courses	Course Title	Credit Hours
BIB 220	Biblical Interpretation	3
CMI 127	Exploring Ministry	2
CMI 310	Communication in Ministry	3
CMI 316	Church Planting/Growth	3
^т СМI 361	Christian Spirituality & Formation (see General Education below)	-
CMI 375	Supervised Ministry (2 Semesters)	2
CMI 401	Biblical Theology of Mission	3
CMI 410	Foundations and Practices in Ministry	3
CMI 475	Supervised Ministry (2 Semesters)	1 each = 2
PHI 314	Ethics	3
REL/HIS 343	History of Christianity	3
THE 206	Doctrines of the Christian Faith	3
Choose one Old Testament c	ourse from the following§	
BIB 302	Old Testament Historical Books	3
BIB 303	Prophets and Politics	3
BIB 304	Genesis: Creation and Fall	3
BIB 404	Biblical Wisdom and Postmodern Culture	3
Choose one New Testament	Course from the following	
BIB 313	Four Gospels; One Jesus	3
BIB 333	Paul: Preacher, Pastor, and Theologian	3
BIB 407	Revelation, Eschatology, and the End of the World	3
Choose one Bible course from		
BIB 308	History of the Bible	3
HIS/BIB 403	History of Biblical Interpretation and Criticism: 1750-1950	3
BIB 408	The Bible in Global Perspectives	3
BIB 484	Seminar in Bible	3
BIB 490	Religion Honors Project	3
Choose one philosophy cours	-	
* PHI 301	Great Thinkers of the Western World	3
PHI/POL 316	Western Political Thought	3
PHI 318	War and Peace	3
* PHI 334	Critical Thinking	3
PHI 381	Philosophy of Religion	3
PHI/REL 394	World Religions	3
* PHI 402	Environmental Ethics	3
* PHI 490	Honors Thesis Project	3
Choose one theology course	from the following§	
THE 307	The Holy Spirit, Spiritual Gifts, and Spirit Movements	3
* THE 318	Christian Origins: Heretics and Saints	3
THE 320	Luther, Calvin, and the European Reformations	3
THE 405	The Problem of Evil	3
* THE 411	From Modern to Postmodern Theology	3
* THE 490	Honors Thesis	3
Christian Ministry Major	Credit Hours	45
General Education		
Community of Learners C	ore Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3

CHRISTIAN MINISTR	RY	
π CMI 361	Christian Spirituality and Formation	3
COR 400	Christian Life and Vocation	2
Biblical Studies Course	es ·	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cour	rses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways	Courses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cre	edit Hours	52
Electives		23
Total R A in Christ	tian Ministry Credit Hours	120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- $^{\pi}$ A major course that meets a General Education requirement.
- * Possible waiver by exam.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.
- [§] Any upper-level course with the same letter prefix except HIS (e.g. BIB) not already used may substitute by approved petition.

Christian Ministry Learning Outcomes

Students in the Christian ministry major will be educated, trained, and equipped for ministry in the contemporary world. Students will study scripture, Christian history and doctrine, philosophy, and they will have practical ministry experiences. Students in this program will discerning their calling in the variety of ways to be involved in Christian ministry. Students will demonstrate growth and formation in Christian spirituality and will be capable of communicating the Christian faith in the contemporary world. They will discover and engage in the mission of God in the world.

Program Admission Requirements

Application to the major is required. Application forms are provided by the department or upon completion of CMI 127 Exploring Ministry.

Program Oversight

The Christian ministry major is overseen by the Department of Theology. Courses with BIB, CMI, GRE, HEB, PHI, REL, and THE numbers are administered by this department. Questions about the major should be directed to the department chair.

Communication Studies (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
COM 100	Introduction to Communication	3
COM 110	Communication Technology	3
^*π COM 212	Rhetoric (see General Education below)	-
COM 214	Communication Theory	2
COM 301	Communication, Spirituality and Service	3
COM 317	Digital Influence (may repeat once)	1
* COM 324	Web Content and Management	3
* COM 399	Communication Portfolio	1
COM 415	Design Thinking	3
* COM 480	Senior Seminar	1
WRT 216	Writing for the Media	3
Choose from the courses	below to total 9 credit hours	
* APR 311	Corporate Communication	3
COM 317	Digital Influence (may be repeated one time)	1
COM 354	Applied Social Media	3
* COM 368	Intercultural Communication	3
COM 370	Special Topics	1-3
COM 385	Practicum	3
* COM 404	Persuasion	3
* COM 502	Graduate Seminar (must have permission)	3
	es Major Credit Hours	32
General Education		
	wa Cawa Cauwaaa	
Community of Learne		2
CON 100	Life in Community	2
CON 200	Christ, Culture, and Diversity	2
COR 374	Preparing for Cross Cultural Studies	1
CON 373	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Course	es	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cou	rses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^*π COM 212	Rhetoric	3
Liberal Arts Pathways	Courses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cre		52
	Cuit Hours	
Electives		36
Total B.A. in Communication Studies Credit Hours		120

COMMUNICATION STUDIES

Symbol Key

- [^] Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Communication Studies Program Learning Outcomes

In this program, students develop foundational skills in speaking, writing, and influencing. Graduates are prepared to excel in communication, leadership, and collaboration. The program is ideal for those who want a broad perspective, or who plan to go to graduate school. Working with advisors, students will supplement the major foundation with electives in digital, corporate, or intercultural communication. Students will experience an emphasis on spirituality and service in this program.

Technology Requirements

All students in this major are encouraged to enter the program with a current MacBook Air or MacBook Pro and maintain a subscription to the Adobe Creative Cloud software package.

COM 212 Rhetoric Requirement for Transfer Students

Students who transfer to SAU or who transfer from a different major at SAU to the communication studies major and have previously taken a public speaking course may fulfill the COM 212 Rhetoric requirement with the public speaking course and by taking the 1 credit hour COM 232 Readings in Rhetoric course.

Upper-level Course Requirements

Depending on which courses students choose in the communication studies major, they may not acquire 36 upper-level credit hours (numbered 300-499) in their major coursework required for graduation. Students should include upper-level courses where possible to meet graduation requirements.

Program Progress Check

Progress will be assessed by the department at the freshman and sophomore years (first year for transfer students). A cumulative 2.5 GPA and passing the progress check are required to continue in the program.

Study Abroad

Students may substitute coursework from the Oxford program or the American Studies Washington D.C. Strategic Communication program offered by the Coalition of Christian Colleges and Universities (CCCU). Admission to the program requires a separate application process. Information can be found at www.cccuglobaled.org. Students should consult their academic advisor before proceeding with the application process and to determine which requirements can be satisfied through study abroad.

Complementary Programs

Students in the communication studies major are encouraged, but not required, to select a complementary minor and/or endorsement that will enhance their preparation for future careers.

Extracurricular Opportunities

Students may participate in student media including the SAU Pulse, HOME.fm, and The Arbor, as well as opportunities to create content for clients, chapel, and short films, and to promote department and campus events.

Program Oversight

The communications major is overseen by the Department of Communication. Courses with APR, COM, SPE, and WRT numbers are administered by this department. Questions about the major should be directed to the department chair.

Computer and Information Science (B.S.)

Course Number	Course Title	Credit Hours
Major Courses		
CPS 105	Introduction to Linux	1
*^ CPS 201	Coding I	4
CPS 202	Coding II	4
CPS 203	Web Design and Development	3
* CPS 301	Data Structures and Algorithms	3
* CPS 303	Data Management	3
* CPS 307	Mobile App Programming	3
CPS 312	Collaborative IT Project (repeat 3 times)	1 each = 3
* CPS 314	Operating Systems and Cloud Computing	2
* CPS 315	Web Services, API and Data Services	3
CPS 318	Introduction to Data Science	3
* CPS 403	Information Assurance and Security	3
* CPS 404	IT Service Management	3
* CPS 429	IT Systems Analysis and Design I	3
* CPS 431	IT Systems Analysis and Design II	3
$^{*_{\pi}}$ MAT 351	Statistics (see General Education below)	-
ORM 411	Project Management	3
Computer and Informati	on Science Major Credit Hours	47
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Course	es ·	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
[^] Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	ourses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
$^{*_{\pi}}$ MAT 351	Statistics (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Credi	t Hours	51
Electives		22
Total B.S. in Comput	er and Information Science Credit Hours	120

COMPUTER AND INFORMATION SCIENCE

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.
- $^{\pi}$ A major course that meets a General Education requirement.

Computer and Information Science Learning Outcomes

Students in the computer and information science major will apply major computing concepts as they analyze and develop solutions in the laboratory setting. Students will demonstrate understanding of major computer science concepts and programming languages through the perspective of theory, abstraction, design, and social context. Computer and information science majors will be prepared to enter the information technology business and industry with demonstrated skills in areas of software and applications development, networking, and systems analysis.

Recommended Courses for Graduate School

The following additional courses are recommended for students planning to pursue a graduate degree. Information about prerequisite and other requirements for these courses are found in the Course Description section of this catalog.

MAT 201 Calculus I (4)

MAT 202 Calculus II (4)

MAT 321 Abstract Algebra I (3)

MAT 352 Linear Algebra (3)

PHY 211 Modern University Physics I (4)

PHY 212 Modern University Physics II (4)

Recommended Complementary Minors

Students majoring in computer and information science are strongly encouraged to minor in business if pursuing employment in industry upon graduation. Students planning to attend graduate school are encouraged to minor in mathematics.

Program Oversight

The computer and information science major is overseen by the School of Engineering. Courses with the CPS, EGR, and MAT numbers are administered by this school. Questions about the major should be directed to the school dean.

Criminal Justice (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
CRJ 201	Crime, Corrections, and Criminal Justice	3
* CRJ 217	Criminal Justice Exploratory	1
* CRJ 301	Criminological Theory	3
CRJ 302	Comparative Criminal Justice Systems	3
CRJ 342	Criminal Law and Court Procedures	3
CRJ 344	Juvenile Delinquency	3
* CRJ 447	Criminal Justice Policy	3
* CRJ 449	Restorative Justice	3
* CRJ 450	Internship	6
* PSY 100	Introduction to Psychology	3
SOC 100	Modern Social Problems	3
SOC 101	Introduction to Sociology (see General Education below)	-
SOC 311	Racial and Ethnic Relations	3
SOC 327	Social Stratification	3
SOC 351	Statistics for Behavioral Sciences (see General Education below)	-
* SOC 352	Research Design	3
SOC 360	Gender and Society	3
* SOC 480	Senior Seminar	1
* SOC 484	Spirituality, Faith, and Justice	3
Criminal Justice Major		50
•		
General Education	00	
Community of Learner		
+ COR 100	Life in Community	2
+ COR 200	Christ, Culture, and Diversity	2
+ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Course	es ·	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cour	ses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	**	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
π SOC 351	Statistics for Behavioral Sciences (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	···	
T SOC 101	See General Education Section for approved courses	4 3
General Education Cre	Introduction to Sociology (Social Science Pathway)	_
	uit nouis	51
Electives		19
Total R A in Crimin	nal Justice Credit Hours	120

CRIMINAL JUSTICE

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

Criminal Justice Learning Outcomes

Students majoring in criminal justice will communicate an awareness of society's understanding of and response to the challenges of crime. Students will articulate an understanding of issues of inequality, the importance of careful research and the significance of a Christian commitment to justice (Shalom). Students will demonstrate capabilities of critical reflection and analysis rooted in Christian values in preparation to participate in the contemporary world. Students in the major will demonstrate preparedness for careers in law enforcement, corrections, parole and probation, pre-law, homeland security, or a variety of other careers, or graduate study.

CRJ 450 Criminal Justice Internship

Students will complete 240 clock hours in an organization working in some aspect of criminal justice.

Program Oversight

The criminal justice major is overseen by the Department of Sociology. Courses with CRJ and SOC numbers are administered by this department. Questions about the major should be directed to the department chair.

Cybersecurity (B.S.)
The cybersecurity program is delivered online in a modular, accelerated delivery formats and on the main campus. General Education requirements vary depending on the student's chosen delivery format.

Course Number	Course Title	Credit Hours
Major Courses		
CPS 310	Operating Systems	3
CPS 311	Data Communications and Networking	3
CPS 313	Computer Systems Security	3
CPS 361	Foundations of Linux for Cybersecurity	3
* CPS 362	Ethical Hacking Tools and Techniques	3
CPS 363 * CPS 364	Security and Management Controls Cyber Threats, Analysis, and Response	3 3
CPS 366	Network Performance and Security	3
PHI 314	Ethics	3
ORM 411	Project Management	3
Choose one course from the		3
ORM 368	Financial Resources Management	3
ORM 405	Leadership Development	3
BUS 107	Leadership and Ethics	3
Cybersecurity Major Cre	·	33
General Education for M	lain Campus	
Core Courses		
⁺ COR 100	Life in Community	2
^{+*} COR 200	Christ, Culture, and Diversity	2
^{+*} COR 374/375	Preparing for Cross Cultural Studies/Cross Cultural Studies	1 and 4
* COR 300	Christian Faith and Community	2
* COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
+ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Course		
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
[^] SPE 100 or SPE 212	Oral Communication or Fundamentals of Speech	2 or 3
Liberal Arts Pathways Co		
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy Science with Lab	See General Education Section for approved courses	3
Social Science	See General Education Section for approved courses See General Education Section for approved courses	4 3
		_
Electives for Main Campus	it Hours for Main Campus	51-52 35-36
	on CALL Clabel Dungung (City Video Conference and Cultura)	33-30
Core Courses	ne SAU Global Programs (Site, Video Conference, and Online)	
+ COR 110	Christ and the University Experience	3
+ COR 320	Christian Life and Thought	3
COR 310	Christian Faith and Scripture	3
COR 410	Christian Perspectives on Culture and Diversity	3
 Cross Cultural Course 	A course in diversity (SOC 311 is recommended)	3
 Cross Cultural Course 	A non-Western HIS/GEO course	3

CYBERSECURITY

Liberal Arts Skills Courses

^ ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
^# SPE 212	Fundamentals of Speech	3

Liberal Arts Pathways Courses

Art or Music	See SAU Global General Education Section for approved courses	Minimum 2
Humanities	See SAU Global General Education Section for approved courses	Minimum 2
Mathematics	See SAU Global General Education Section for approved courses	Minimum 2
Science with Lab	See SAU Global General Education Section for approved courses	Minimum 2
Social Science	See SAU Global General Education Section for approved courses	Minimum 2
Social Science	See SAU Global General Education Section for approved courses	Minimum 2
Social Science	See SAU Global General Education Section for approved courses	Minimum 2

General Education Credit Hours for SAU Global

39+ Possible Electives for SAU Global 48

Total B.S. in Cybersecurity Credit Hours (all delivery methods) 120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver with special assessments.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Cybersecurity Learning Outcomes

Students will demonstrate advanced and ethical skills in cybersecurity within a Christian worldview. Students be able to detect vulnerabilities, reduce cyber threats, and secure networks and servers. Students will analyze software, tools, and techniques to use to defend against and respond to cybersecurity attacks.

Industry Certification

Students will be prepared to take industry tests to earn the following (or similar) certifications.

- TestOut PC Pro (A+) CPS 310 Operating Systems and CPS 363 Security and Management Controls
- TestOut Security Pro (Security+) CPS 313 Computer Security Systems
- TestOut Network Pro (Network+) CPS 311 Data Communications and Networking and CPS 366 **Network Performance and Security**
- Linux Pro Tool (mod 8-15) CPS 361 Foundations of Linux for Cybersecurity
- Ethical Hacking (EC Council Pentest) CPS 362 Ethical Hacking Tools and Techniques and CPS 364 Cyber Threats, Analysis, and Response

Cybersecurity Oversight

The cybersecurity major is overseen by the School of Engineering. Courses with the CPS, EGR, and MAT prefixes are administered by this department. Questions about the major should be directed to the dean of the school.

Data Analytics (B.S.)

Course Number	Course Title	Credit Hours
Major Courses		
BUS 107	Foundations of Leadership and Ethics	3
* BUS/HES/MAT/PSY 351	Statistics Statistical Application for Business	3
BUS 354 CPS 105	Statistical Application for Business Introduction to Linux	1 1
* CPS 201	Coding I	4
CPS 202	Coding II	4
* CPS 303	Data Management	3
* CPS 318	Introduction to Data Science	3
* CPS 429	Systems Analysis and Design I	3
^π ECN 221	Introduction to Microeconomics (see General Education below)	-
* FIN 451	Business Forecasting and Analytics	3
*π MAT 201	Calculus I (see General Education below)	-
* MAT 352	Linear Algebra	3
MIS 403	Presentation of Data Analysis	1
ORM 411 or BUS 426	Project Management or Operations and Supply Chain Mgmt.	3
Choose one of the following		
CPS 312	Collaborative IT Project (repeat three times)	1 each=3
MIS 385	Practicum	3
ORM 412	Lean Management	3
Choose one of the following		
BUS 403	Argument and Persuasion for Business	3
CPS 203	Web Design and Development	3
WRT 310	Multimedia Writing	3
Data Analytics Major Cre	dit Hours	41
General Education		
Community of Learners C	Core Courses	
+ COR 100	Life in Community	2
+ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
† BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Courses		
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co		_
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
*π MAT 201	Calculus I (Mathematics Pathway)	4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
^π ECN 221	Introduction to Microeconomics (Social Science Pathway)	3
General Education Credit	Hours	52
Electives		27
Total B.S. in Data Ana	Total B.S. in Data Analytics Credit Hours	

DATA ANALYTICS

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

Data Analytics Learning Outcomes

Students in the data analytics major will extract, analyze, and present large data sets to demonstrate business intelligence. Students will demonstrate computational and analytical competence. Students will make decisions using data and statistical thinking. The curriculum of the program is designed to prepare students for graduate school and to be leaders who serve as data analysts or data scientists.

Program Oversight

The data analytics major is overseen by the Gainey School of Business. Courses with ACC, BUS, ECN, ENT, FIN, IBS, MIS, MKT, and ORM numbers are administered by this school.

Digital Communication and Marketing (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
* APR 309	Advertising Strategies	3
* APR 311	Corporate Communication	3
ART 335	Web Design	3
COM 100	Introduction to Communication	3
COM 110	Communication Technology	3
^*π COM 212	Rhetoric (see General Education below)	-
COM 214	Communication Theory	2
COM 317	Digital Influence (may repeat once for credit)	1
* COM 324	Web Content and Management	3
COM 354	Applied Social Media	3
COM 385	Practicum (may take up to 4 credit hours)	1
* COM 399	Communication Portfolio	1
* COM 415	Design Thinking	3
* COM 480	Senior Seminar	1
MKT 221	Marketing Principles	3
* WRT 216	Writing for the Media	3
	n and Marketing Major Credit Hours	36
•	in and warketing wajor create riours	30
General Education Community of Learne	re Coro Courcos	
•		2
CON 100	Life in Community	2
CON 200	Christ, Culture, and Diversity	2
CON 374	Preparing for Cross Cultural Studies	1
CON 373	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Cours		_
+ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cou		
ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^*π COM 212	Rhetoric	3
Liberal Arts Pathways		
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cro	edit Hours	52
Electives		37
B.A. in Digital Con	nmunication and Marketing Credit Hours	120

DIGITAL COMMUNICATION AND MARKETING

Symbol Key

- [^] Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Digital Communication and Marketing Program Learning Outcomes

This program prepares students to use a variety of media to persuade others in creative and effective ways. Most classes include client-facing projects that contribute to a credible, creative portfolio of students' best work. A unique aspect of this program focuses on ethical persuasion that serves the interest of others. This major prepares students for careers in advertising, public relations, creative strategy, social media management, corporate communication, non-profit leadership, and others.

Technology Requirements

All students in the Department Media and Visual Arts are required to enter the program with a current MacBook Air or MacBook Pro and must subscribe to the Adobe Creative Cloud software package.

COM 212 Rhetoric Requirement for Transfer Students

Students who transfer to SAU or who transfer from a different major at SAU to the digital communication and marketing major and have previously taken a public speaking course may fulfill the COM 212 Rhetoric requirement with the public speaking course and by taking the 1 credit hour COM 232 Readings in Rhetoric course.

Program Progress Check

Student progress will be assessed by the department at both the freshman and sophomore levels (first year for transfer students). Students must have a 2.5 cumulative GPA and pass the progress check to continue in the program.

Extracurricular Opportunities

Students have the opportunity to participate in student media including the SAU Pulse, HOME.fm, and The Arbor. Students may also create content for clients, chapel, and short films, as well as promote department and campus events. Students may choose to participate in Enactus, the Let's Network event and the Social Etiquette Dinner.

Study Abroad

Students may substitute coursework from the American Studies Washington D.C. semester offered by the Coalition of Christian Colleges and Universities (www.cccuglobaled.org) or other SAU approved semester programs. Admission to these programs require a separate application process. Consultation with the dean and Office of Registration and Records is required to determine how requirements of the program will be satisfied in a study abroad opportunity.

Program Oversight

The digital communication and marketing major is overseen by the Department of Communication. Courses with APR, COM, SPE, and WRT numbers are administered by this department. Questions about the major should be directed to the department chair.

Elementary Education: Grades PK-3 (B.A.)

Course Number Foundation Courses	Course Title	Credit Hours
§ EDU 140/140L	Exploring Critical Skills for the Professional Educator and Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
^* EDU 360	Integrating Technology in Education (online)	2
^* EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430E	Seminar in Teaching	3
^{^*} EDU 450E	Direct Teaching-Elementary	9
Methods Courses		
§* EDU 321	Teaching Reading and Language Arts in the Primary Grades	3
§* EDU 433	Applied Core Teaching Practices Across the Curriculum PK-6	4
PK-3 Courses		
^{^*} ECE 265	Social Foundations of Early Childhood Education	3
^{^*} ECE 320	Assessment, Guidance, and Discipline in Early Childhood Education	2
^* ECE 361	Motor Development and Motor Learning	2
^* ECE 378	Assessment and Intervention Strategies in Early Childhood Education	3
Mathematics Courses		
^* EDU 366	Multiple Modes of Representation in Elementary Mathematics	4
§*π MAT 330	Foundations of School Math I (see General Education below)	-
^{^*} MAT 331	Foundations of School Math II	3
Science Courses		
§π BIO 100	Principles of Biology (see General Education)	-
§ NSC 200	Elementary Science Survey-Science by Inquiry	4
Social Studies Courses		
^{^π} HIS 361	Michigan History	3
§π SST 200	Human Society: Learning in the Social Studies (see Gen. Ed. below)	-
Language Arts/Literacy C		
^* ECE 340	Emergent and Beginning Literacy	3
^* EDU 376	Children's Literature	3
^* EDU 424	Elementary and Middle School Reading Problems	3
^* ENG 112	World Literature (see General Education below)	-
^* RDG 428	Teaching Writing for PK-6 Teachers	3
Elementary Education: G	rades PK-3 and 3-6 Major Credit Hours	69
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374 and COR 375	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Course	S	
§* ENG 104	College Writing	3
§*# ENG 304	Writing and Research	3
^ HPR 101	Personal Fitness and Wellness	2
^# SPE 100	Oral Communication	2
Liberal Arts Pathways Co	PARTIE	
^ ART 152	Art Foundations (Fine Arts Pathway - Art)	2
^ MUS 152	Music Foundations (Fine Arts Pathway - Music)	2
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ELEMENTARY EDUCATION: GRADES PK-3

§π SST 200	Human Society: Learning in the Social Studies (History Pathway)	3
^*π ENG 112	World Literature (Literature Pathway)	3
§*π MAT 330	Foundations of School Math I (Mathematics Pathway)	3
Philosophy	See General Education section for approved courses	3
^{§π} BIO 100	Principles of Biology (Science Pathway)	4
^{^π} EDU 230	Educational Psychology (Social Science Pathway)	3
Total General Education Credit Hours		51
B.A. in Elementary Education: Grades PK-3 Total Credit Hours		120

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible alternative course or exam option to fulfill this requirement.
- $^{\pi}$ A major course that meets General Education requirements.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Elementary Education: Grades PK-3 Learning Outcomes

Students will articulate understanding of early childhood development from preschool through grade 3 and examine social issues affecting children. They will develop curriculum aligned to the academic standards for primary grades PK-3. Students will demonstrate proficiency using Michigan's Core Teaching Practices (CTPs) and be prepared to teach and work with children in PK through grade 3 settings in schools in Michigan.

Certification Eligibility

Students completing the elementary education: grades PK-3 program will be eligible to earn certification in lower elementary (PK-3) education MDE endorsement (ZO).

Program Curriculum

This program provides a broad spectrum of early elementary education courses aligned to the Michigan Standards for the preparation of teachers of lower elementary education, PK-3 Michigan academic standards for literacy, mathematics, science, and social studies, as well as the National Association for the Education of Young Children (NAEYC) Standards. Courses are presented from a Christian liberal arts perspective and offer practical experiences that provide significant learning opportunities, including early childhood development, social issues affecting children, and curriculum development for grades PK-3.

Teacher Education Information

More information can be found in the Teacher Preparation Program section of this catalog.

Speech General Education Requirement Option

Students who successfully complete the interpersonal and presentation portions of EDU 140L upon the recommendation of the School of Education faculty will fulfill the speech requirement for General Education. No credit hours will be earned for fulfillment of this requirement through EDU 140L.

Program Oversight

The early childhood education major is overseen by the School of Education. Courses with numbers ECE, EDU, RDG, SED, and TSL are administered by the School of Education. Questions about this major should be directed to the program director.

Elementary Education: Grades PK-3 and 3-6 (B.A.)

Course Number Foundation Courses	Course Title	Credit Hours
§ EDU 140/140L	Evaloring Critical Chills for the Professional Educator and Lah	2
§* EDU 202	Exploring Critical Skills for the Professional Educator and Lab Issues and Trends in American Education	3 2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
^* EDU 360	Integrating Technology in Education (online)	2
^* EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430E	Seminar in Teaching	3
^* EDU 450E	Direct Teaching-Elementary	9
Methods Courses	,	
§* EDU 321	Teaching Reading and Language Arts in the Primary Grades	3
§* EDU 322	Teaching Reading and Language Arts in the Intermediate Grades	3
§* EDU 433	Applied Core Teaching Practices Across the Curriculum (PK-6)	4
PK-3 Courses		
^* ECE 265	Social Foundations of Early Childhood Education	3
^* ECE 320	Assessment, Guidance, and Discipline in Early Childhood Education	2
^* ECE 361	Motor Development and Motor Learning	2
^* ECE 378	Assessment and Intervention Strategies in Early Childhood Education	3
Mathematics Courses		
^* EDU 366	Multiple Modes of Representation in Elementary Mathematics	4
§*π MAT 330	Foundations of School Math I (see General Education below)	-
^* MAT 331	Foundations of School Math II	3
Science Courses		
^{§π} BIO 100	Principles of Biology (see General Education below)	-
§ NSC 200	Elementary Science Survey-Science by Inquiry	4
§ PHY 120	Introduction to Earth Science	4
Social Studies Courses		
^{^π} HIS 141	United States to 1877	3
^{^π} HIS 361	Michigan History	3
§π SST 200	Human Society: Learning in the Social Studies (see Gen. Ed. below)	-
Language Arts/Literacy C	Courses	
^* ECE 340	Emergent and Beginning Literacy	3
^* EDU 376	Children's Literature	3
^* EDU 424	Elementary and Middle School Reading Problems	3
^* ENG 112	World Literature (see General Education below)	-
^* RDG 428	Teaching Writing for PK-6 Teachers	3
Elementary Education: G	rades PK-3 and 3-6 Major Credit Hours	79
General Education		
Community of Learners (Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
* COR 374 and COR 375	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Course		
§* ENG 104	College Writing	3
§*# ENG 304	Writing and Research	3
^ HPR 101	Personal Fitness and Wellness	2
^# SPE 100	Oral Communication	2
5. 2 200	o.a. coiumouton	-

ELEMENTARY EDUCATION: GRADES PK-3 AND 3-6

Liberal Arts Pathways Courses

R.A. in Elementa	ry Education: PK-3 and 3-6 Total Credit Hours	130
General Education	Credit Hours	51
^{^π} EDU 230	Educational Psychology (Social Science Pathway)	3
^{§π} BIO 100	Principles of Biology (Science Pathway)	4
Philosophy	See General Education section for approved courses	3
^{§*π} MAT 330	Foundations of School Math I (Mathematics Pathway)	3
^*π ENG 112	World Literature (Literature Pathway)	3
^{§π} SST 200	Human Society: Learning in the Social Studies (History Pathway)	3
^ MUS 152	Music Foundations (Fine Arts Pathway - Music)	2
^ ART 152	Art Foundations (Fine Arts Pathway - Art)	2

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible alternative course or exam option to fulfill this requirement.
- $^{\pi}$ A major course that meets General Education requirements.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Elementary Education: Grades PK-3 and 3-6 Learning Outcomes

Students will articulate understanding of child development from preschool through grade 6 and examine social issues affecting children. Students will develop curriculum aligned to the academic standards for primary grades (PK-3) and intermediate grades (3-6) and demonstrate proficiency using Michigan's Core Teaching Practices (CTPs). This comprehensive major prepares students to teach and work with children in PK through grade 6 settings in schools in Michigan.

Certification Eligibility

Students completing this program will be eligible to earn certification in lower elementary (PK-3) education MDE endorsement (ZO) and upper elementary (3-6) MDE endorsement (ZP).

Program Curriculum

The Elementary Education: Grades PK-3 and 3-6 comprehensive program provides extensive preparation in both pedagogy and Michigan PK-6 academic standards. Courses are presented from a Christian liberal arts perspective and offer practical experiences that provide significant learning opportunities within partner school districts. The curriculum also provides a unique balance between core education courses, specific elementary education pedagogy, content area coursework, and authentic clinical experiences.

Teacher Education Information

More information can be found in the Teacher Preparation Program section of this catalog.

Speech General Education Requirement Option

Students who successfully complete the interpersonal and presentation portions of EDU 140L upon the recommendation of the School of Education faculty will fulfill the speech requirement for General Education. No credit hours will be earned for fulfillment of this requirement through EDU 140L.

Program Oversight

See Elementary Education: Grades PK-3 section of this catalog.

Electrical Engineering (B.S.)

Course Number	Course Title	Credit Hours
Major Courses	Course ritte	Credit Hours
*π CHE 111	General Chemistry I (see General Education below)	_
CPS 201 and CPS 202	Coding I and Coding II	4 and 4
EGR 100	Introduction to Engineering I	3
* EGR 110	Basics of Engineering Design	1
* EGR 112	Introduction to Engineering II	1
* EGR 203	Electric Circuits	4
* EGR 206	Statics	3
* EGR 221	Advanced Circuits	3
* EGR 222	Digital Electronics	3
* EGR 301	Introduction to Microcontrollers w/Lab	4
* EGR 310	Electronics w/Lab	3
* EGR 321	Digital Signal Process w/Lab	4
* EGR 326	Mechatronics	3
* EGR 401	Senior Design I	4
* EGR 402	Senior Design II	4
* EGR 4**	Engineering Elective	3
* EGR 4**	Engineering Elective	3
^*π MAT 201	Calculus I (see General Education below)	-
* MAT 202	Calculus II	4
* MAT 302	Vector Calculus	3
* MAT 311	Differential Equations	3
* MAT 351	Statistics	3
* MAT 352 ^ PHV 211	Linear Algebra	3
PHT 211	Modern University Physics I	4
PHT 212	Modern University Physics II	4
Electrical Engineering Ma	jor Credit Hours	78
General Education		
Community of Learners C	ore Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
† BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Courses	,	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
·		2
Liberal Arts Pathways Co		2
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature ^{^*π} MAT 201	See General Education Section for approved courses Calculus I (Mathematics Pathway)	3 4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses See General Education Section for approved courses	3
*π CHE 111	General Chemistry I (Science Pathway)	4
Social Science	See General Education Section for approved courses	3
General Education Credit		55
		133
B.S. in Electrical Engineering Total Credit Hours		133

ELECTRICAL ENGINEERING

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.
- $^{\pi}\,$ A major course that meets General Education requirements.

Electrical Engineering Learning Outcomes

Students in the electrical engineering major will be able to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics. Students will conduct appropriate experimentation, analyze, and interpret data, and use engineering judgment to draw conclusions. Students will apply engineering design to produce ethical solutions that meet specific needs while considering public health, safety, and welfare, as well as global, cultural, societal, environmental, and economic factors. Students will function effectively on a team on which members together provide leadership, create a collaborative and inclusive environment, plan tasks, establish goals, and meet objectives. Students will effectively communicate with a range of audiences and incorporate a faith-based worldview into their profession.

Minimum Credits

Students in the electrical engineering program may finish the program with greater or fewer credit hours than the stated total of credit hours in the program, depending on specific variables. For example, course credit allowed to be waived may be deducted from the total number of required credits in the program. However, students must complete the minimum of 120 credits required for graduation.

Admissions Criteria

Students may be officially admitted to the major subsequent to passing MAT 201 Calculus I with a grade of "C" or better and after a successful interview with the engineering faculty.

Transfer Students

Due to course sequencing and program requirements, transfer students into the electrical engineering major may take longer than a cumulative of four years to complete the major, and they will likely have more than 133 credit hours.

Program Oversight

The electrical engineering major is overseen by the School of Engineering. Courses with CPS, EGR, and MAT numbers are administered by this school. Questions about the major should be directed to the school dean.

English (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
*π ENG 112	World Literature (see General Education below)	-
* ENG 208	Creative Writing	3
* ENG 220	Introduction to Literary Study	3
ENG 333	Bible as Literature	3
ENG 361	English Language	3
Choose one American lit	erature course from the following	
ENG 322	19th Century American Literature	3
ENG 350	20 th Century American Literature	3
ENG 352	American Literature: World War II – Present	3
Choose one British litera	ture course from the following	
ENG 329	Early British and Continental Literature	3
ENG 360	19 th Century British Literature	3
ENG 362	20 th Century British Literature	3
One American or British	Literature course from the lists above not already used	3
Choose one creative write	ting course from the following	
* ENG 309	Creative Nonfiction	3
* ENG 311	Poetry Writing	3
* ENG 313	Fiction Writing	3
* VID 314	Script Writing	3
Choose four upper-level	ENG courses not already used	12
English Major Credit I	Hours	36
General Education		
Community of Learne	rs Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Cours	es	
⁺ BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Cou	rses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways C	ourses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
*π ENG 112	World Literature (Literature Pathway)	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cre	edit Hours	51
Electives		33
B.A. in English Tot	al Credit Hours	120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

English Learning Outcomes

Students in the English major will articulate key components of literature and literary history. Students will demonstrate writing competence for a variety of contexts. Students will demonstrate an ability to think broadly and critically. English majors will be able to analyze and evaluate texts and literature from a Christian worldview. Students will connect knowledge and skills acquired in the program to situations they may encounter beyond the university experience. Students will be prepared for careers directly related to their English studies and for other broader careers such as advertising, marketing, ministry, public relations, and law.

Upper-level Course Requirements

Depending on which courses students choose in the English major, they may not acquire 36 upper-level credit hours (numbered 300-499) in their major coursework. However, students are required to complete 36 credit hours of upper-level courses in order to graduate. Students in the English major should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Program Oversight

The English major is overseen by the Department of English. Courses with the ENG number are administered by this department. Questions about the major should be directed to the department chair.

English Secondary Education (B.A.)

Course Number	Course Title	Credit Hours
Major Content Area Courses		
^*π ENG 112	World Literature (see General Education below)	-
^* ENG 208	Creative Writing	3
^* ENG 220	Introduction to Literary Study	3
^ ENG 333	Bible as Literature	3
^ ENG 361	English Language	3
Choose one American literature from the following		
ENG 322	19 th Century American Literature	3
ENG 350	20 th Century American Literature	3
ENG 352	American Literature: World War II – Present	3
Choose one British literature from the following		
ENG 329	Early British and Continental Literature	3
ENG 360	19th Century British Literature	3
ENG 362	20 th Century British Literature	3
One American or British Lite	rature courses from the lists above not already used	3
Choose one course from the following		
^* ENG 309	Creative Nonfiction	3
^* ENG 311	Poetry Writing	3
^ ENG 313	Fiction Writing	3
^* VID 314	Scriptwriting	3
Choose four upper-level ENC	G courses not already used	12
English Content Area Credit Hours		36
Secondary Education Professional Program		
§ EDU 140/140L	Exploring Critical Skills for the Professional Educator and Lab	3
§* EDU 202	Issues and Trends in American Education	2
^*π EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
§* EDU 336	Teaching at the Secondary Level (or minor methods course)	2
§* EDU 341	Teaching English at the Secondary Level	2
^* EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^{‡*} EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
	fessional Program Credit Hours	33
General Education		
Community of Learners (
+ COR 100	Life in Community	2
+ COR 200	Christ, Culture, and Diversity	2
+ COR 374	Preparing for Cross Cultural Studies	1
CON 373	Cross Cultural Studies Christian Faith and Community	3
COR 300 COR 400	Christian Faith and Community Christian Life and Vocation	2 2
	Christian Life and Vocation	2
Biblical Studies Courses * BIB 217	Old Toctament Survey	າ
* BIB 217	Old Testament Survey New Testament Survey	3 3
	·	3
Liberal Arts Skills Courses §* FNG 104 College Writing 3		
LING 104	College Writing	3
LING 304	Writing and Research Personal Fitness and Wellness	3
HPR 101	reisoliai ritiless aliu Welliless	2

ENGLISH SECONDARY EDUCATION

^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways	Courses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
^*π ENG 112	World Literature (Literature Pathway)	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
^{^π} EDU 230	Educational Psychology (Social Science Pathway)	3
General Education Credit Hours		51
Choose a certifying minor (see Teacher Education for more information)		20
B.A. in English Secondary Education Total Credit Hours		140

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible alternative course or exam option to fulfill this requirement.
- $^{\pi}$ A major, required support, or professional program course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

English Secondary Education Learning Outcomes

Students in the English secondary education major will articulate key components of literature and literary history. Students will demonstrate writing competence for a variety of contexts. Students will demonstrate an ability to think broadly and critically and be able to analyze and evaluate texts and literature from a Christian worldview. Students will connect knowledge and skills acquired in the program to situations they may encounter beyond the university experience. Students in the English secondary education major will be prepared for graduate school and to teach English in secondary schools in Michigan.

Minimum GPA Requirement

Students must have a 3.0 cumulative GPA in the major and minor content areas to be eligible for certification.

Teacher Certification Tests

Students in this program should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC).

Program Oversight

The English secondary education major is overseen by the Department of English. Courses with the ENG number are administered by this department. Questions about the major should be directed to the department chair. The secondary education professional portion of this degree program is overseen by the School of Education. For additional teacher education policies and requirements, please refer to the Teacher Education section of this catalog.

Finance (B.S.)

Course Number Major Courses	Course Title	Credit Hours
ACC 221 and *ACC 222	Principles of Accounting I and Principles of Accounting II	3 and 3
BUS 107	Foundations of Leadership and Ethics	3
BUS 162	Business Computer Applications	1
BUS 271	Business Law I	3
*π BUS/HES/MAT/PSY 351	Statistics (see General Education below)	-
BUS 354	Statistical Application for Business	1
CPS 201	Coding I	4
*π ECN 221	Introduction to Microeconomics (see General Education below)	-
* ECN 222	Introduction to Macroeconomics	3
FIN 268 or FIN 200	Personal Finance or Introduction to Financial Planning	3
* FIN 301 and FIN 362	Money and Banking and Principles of Finance	3 and 3
* FIN 418	Investments	3
* FIN 451	Business Forecasting and Analytics	3
* FIN 480	Finance Capstone	3
Choose 6 credit hours from t	he following	
MKT 221	Marketing Principles	3
* ACC 314	Cost and Managerial Accounting Theory	3
* ACC 391	Individual Taxation	3
* ACC 392	Organizational Taxation (ACC 391 is prerequisite)	3
Choose one course from the		
IBS 223	Biblical Foundations of International Business	3
IBS 305	Principles of International Business	3
Finance Major Credit Hou	48	
General Education		
Community of Learners C	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
 COR 374 and COR 375 	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
* BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Courses	3	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	urses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
*π BUS/HES/MAT/PSY 351	Statistics (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
*π ECN 221	Introduction to Microeconomics (Social Science Pathway)	3
General Education Credit	Hours	51
Electives		21
B.S. in Finance Total	Credit Hours	120

FINANCE

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

Finance Learning Outcomes

Students in the finance major will demonstrate competency in all aspects of personal financial planning, corporate finance, and investments. Finance majors will be involved in simulations, field trips and a consulting opportunity. They will also examine the latest methods in international arbitrage and investment opportunities. Students will be prepared for employment in the field of finance or for entering a graduate program upon graduation.

Series 7 Exam

Students in the finance major may choose specific courses to prepare for the Qualification Examination for General Securities Registered Representative (Series 7 Exam).

Program Oversight

The finance major is overseen by the Gainey School of Business. Courses with ACC, BUS, ECN, ENT, FIN, IBS, MKT, and ORM numbers are administered by this department. Questions about the major should be directed to the school dean.

Financial Planning (B.S.)

6 N 1	C mid	0 11. 11
Course Number	Course Title	Credit Hours
Major Courses		
ACC 221	Principles of Accounting I	3
* ACC 222	Principles of Accounting II	3
* ACC 391	Individual Taxation	3
BUS 107	Foundations of Leadership and Ethics	3
*π BUS/HES/MAT/PSY 351	Statistics (see General Education below)	-
BUS 354	Statistical Application for Business	1
*π ECN 221	Introduction to Microeconomics (see General Education below)	-
* ECN 222	Introduction to Macroeconomics	3
FIN 200	Introduction to Financial Planning	3
FIN 201	Financial Institutions	1
FIN 202	Student Managed Investment (two semesters)	1 each=2
* FIN 301	Money and Banking	3
* FIN 362	Principles of Finance	3
* FIN 368	Insurance and Risk Management	3
* FIN 418	Investments	3
* FIN 420	Retirement Planning	3
* FIN 425	Estate Planning	3
* FIN 451	Business Forecasting and Analytics	3
* FIN 480	Finance Capstone	3
Financial Planning Major	Credit Hours	46
General Education		
Community of Learners C	Core Courses	
⁺ COR 100	Life in Community	2
+ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
	Ciribitan Life and 700ation	_
Biblical Studies Courses		2
† BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Courses	5	
^{^*} ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	urses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
*π BUS/HES/MAT/PSY 351	Statistics (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
*π ECN 221	Introduction to Microeconomics (Social Science Pathway)	3
General Education Credit	· · · · · · · · · · · · · · · · · · ·	51-52
Electives		22-23
R.S. in Financial Plan	ning Total Credit Hours	120
Divini i manciai i iali	ming I out of cutt front 3	120

FINANCIAL PLANNING

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Financial Planning Learning Outcomes

Students in the financial planning major will demonstrate competency in all aspects of financial planning and will be prepared to take the CFP Examination. Students will be trained to be servant-minded financial planners who make an impact for Christ. Students will be prepared for employment in the field of financial planning or for entering a graduate program upon graduation.

Program Oversight

The financial planning major is overseen by the Gainey School of Business. Courses with ACC, BUS, ECN, ENT, FIN, IBS, MKT, and ORM numbers are administered by this department. Questions about the major should be directed to the school dean.

General Studies (B.A.)

This program is not a matriculating program and is not intended for new SAU students. The program is designed for students who have been unable to complete an academic major at SAU for a variety of reasons, including but not limited to, personal issues, geographical changes, struggles in major courses, an employment change, job retention, or a promotion that requires a bachelor's degree. Students must petition the Office of Registration and Records to transfer to this program. The petition is granted or denied by the Office of Registration and Records after an evaluation of the student's academic record.

Course Number	Course Title	Credit Hou
Choose one to three concen		
Behavioral Science Concen		45
PSY/SOC/SWK	6 credit hours any level, 9 upper-level credit hours	15
Business Concentration		
ACC/BUS/ECN/FIN/MKT	6 credit hours any level, 9 upper-level credit hours	15
Criminal Justice Concentrat	tion	
SOC 101	Introduction to Sociology	3
CRJ 201	Crime, Corrections and Criminal Justice	3
^ CRJ 301	Criminological Theory	3
^ CRJ 447	Criminal Justice Policy	3
^ CRJ 449	Restorative Justice	3
inglish/Literature Concent	ration	
^ ENG 112	World Literature	3
^ ENG 220	Introduction to Literary Study	3
ENG 300-499 (x 3)	English courses, except ENG 304 (upper level)	9
, ,		Э
amily Life Education Conc		
FLE	6 credit hours any level, 9 upper-level credit hours	15
ine Arts Concentration		
ART/MUS	6 credit hours any level, 9 upper-level credit hours	15
Health and Human Perform	nance Concentration	
HPR 151	Introduction to Health, Human Performance and Recreation	3
HPR 153	Foundations of Physical Fitness, Health and Wellness	3
HPR/HES/REC 300+	Health and human performance courses (upper level)	9
HPK/HES/KEC 300+		9
listory/Political Science Co		
HIS/POL	6 credit hours any level, 9 upper-level credit hours	15
Mathematics/Computer Sc	ience Concentration	
CPS/MAT	6 credit hours any level, 9 upper-level credit hours	15
Natural Science Concentrat		
BIO/CHE/NSC/PHY	6 credit hours any level, 9 upper-level credit hours	15
		13
Organizational Manageme		
ORM	6 credit hours any level, 9 upper-level credit hours	15
Bible/Ministry/Philosophy	Religion/Theology Concentration	
	6 credit hours any level, 9 upper-level credit hours	6
Concentration Credit Ho	urs	15-45
General Education Cou	irses for SAU Global	
Community of Learners (Core Courses	
COR 110	Christ and the University Experience	3
COR 320	Christian Life and Thought	3
COR 310	Christian Faith and Scripture	3
COR 410	Christian Perspectives on Culture and Diversity	3
Cross Cultural Courses	A course in diversity and a non-Western HIS/GEO course	3 and 3
Liberal Arts Skills Course	·	
*# ENG 104	College Writing	3
ENG 304	Writing and Research	3
LING 304	Spring Arbor University 2022-2023 Undergraduate Academic Catalog	J

GENERAL STUDIES

^# SPE 212	Fundamentals of Speech	3
Liberal Arts Pathway C	Ourses (some of these requirements may be met with concentration courses)	
Art or Music	See SAU Global General Education Section for approved courses	Minimum 2
Humanities	See SAU Global General Education Section for approved courses	Minimum 2
Mathematics	See SAU Global General Education Section for approved courses	Minimum 2
Science with lab	See SAU Global General Education Section for approved courses	Minimum 2
Social Science (x3)	See SAU Global General Education Section for approved courses	Minimum 6
General Education Cre	dit Hours for SAU Global	41
General Education fo	or Main Campus	
Community of Learner	s Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Course	s	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cours	ses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness (HPR 153 for HHP concentration)	2
[^] Speech	See General Education Section for approved courses	2
Liberal Arts Pathways	Courses (some of these requirements may be met with concentration courses)	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cre	dit Hours for Main Campus	51
Electives to complete 120	credit hours total	
B.A. in General Stud	dies Total Credit Hours	120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.

Criteria for Consideration

Criteria for admission into this program is as follows:

- A petition must be submitted to the registrar requesting to change from a matriculating SAU major.
- Factors that may impede the student from completing the current matriculating degree program will be assessed before admitting students to this program. A petition is not a guarantee of approval.
- Prior academic progress will be evaluated to determine the likelihood of students being able to finish the general studies program successfully <u>within three semesters</u> after the petition is submitted.

Petition for Alternative Concentration

⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Students may have previously completed a group of courses in a discipline not listed as a concentration option in the degree program. Students who wish to use that discipline as their concentration may petition the Office of Registration and Records. The department of the discipline must approve the concentration; therefore, a petition is not a guarantee of approval.

General Education Requirements

Students who are transferring into the general studies program from other SAU programs will be required to meet the General Education requirements for the SAU program from which they are transferring as reflected in a degree audit conducted by the Office of Registration and Records. Some General Education requirements may be met with concentration courses and will be identified in the degree audit.

SAU Global General Education Credit Hours

It is very likely that courses taken to meet the SAU Global General Education requirements are generally higher in credit hours than what is listed in the curriculum above, particularly in the Liberal Arts Pathway courses. If that is the case, those additional credit hours will be applied to electives.

Graduation and Program Requirements

- Student must meet all graduation requirements for a bachelor's degree.
- A student must complete at least one concentration and can have up to three concentrations.
- All of the concentrations require 15 credit hours with at least 5 courses in a given area. Nine of the 15 credits must be upper level.
- Concentration cumulative GPA must be at least 2.2.

Program Oversight

The general studies program is overseen by the Office of Registration and Records in consultation with academic departments. An academic advisor will be assigned by the registrar's office to assist the student in completing the requirements.

GENERAL STUDIES	

Graphic Design (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
^{^π} ART 162	Drawing I (see General Education below)	-
^ ART 165	Two-Dimensional Design	3
^ ART 167	Color	2
^ ART 205	Foundations of Photography	3
^ ART 272	Introduction to Graphic Design	4
^* ART 274	Graphic Design I	4
^* ART 333	Graphic Design II	4
^* ART 334	Graphic Design III	3
^* ART 335	Web Design	3
^ ART 376	Typography	3
COM 324	Web Content and Management	3
COM 385	Practicum (may take up to 4 credit hours)	1
COM 399	Communication Portfolio	1
COM 415	Design Thinking	3
COM 480	Senior Seminar	1
Graphic Design Major	Credit Hours	39
General Education		
Community of Learne	rs Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Cours	es	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cou	rses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways		
^{^π} ART 162	Drawing I (Art portion of the Fine Arts pathway)	3
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cro	edit Hours	52
Electives		32
B.A. in Graphic De	sign Total Credit Hours	120

GRAPHIC DESIGN

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible waiver by exam.
- $^{\pi}$ A major course that meets General Education requirements.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Graphic Design Learning Outcomes

This program prepares students for work as a graphic designer, creative director, web designer, content creator, social media marketer, production designer, multi-media artist, freelancer in creative fields. Students will experience a comprehensive approach to visual literacy including client-centered projects and hands-on experiences. Connections between design and communication are emphasized. Unique features of this program include a personal portfolio and robust co-curricular opportunities.

Technology Requirements

The Department of Media and Visual Arts are required to strongly recommends students enter the program with a current MacBook Pro. Students must maintain a subscription to the Adobe Creative Cloud software package.

Program Progress Check

Student progress will be assessed by the department at both the freshman and sophomore levels (first year for transfer students). Students must have a 2.5 cumulative GPA and pass the progress check to continue in the program.

Extracurricular Opportunities

Students will have opportunities to create content for student media including the SAU Pulse, HOME.fm, The Arbor, Almost Chapel and the Will Shoot for Credit short film screening. Students may also have opportunities to produce video, audio and graphic content for clients, chapel, and to promote department and campus events.

Study Abroad

Students may substitute coursework from the American Studies Washington D.C. semesters offered by the Coalition of Christian Colleges and Universities (www.cccuglobaled.org) or other SAU approved semester programs. Admission to these programs requires a separate application process. Consultation with the dean and Office of Registration and Records is required to determine how requirements of the program will be satisfied in a study abroad opportunity.

Program Oversight

The graphic design major is overseen by the Department of Media and Visual Arts. Courses with ART, AUD, FAS and VID numbers are administered by this department. Questions about the major should be directed to the department chair.

Health and Exercise Science (B.S.)

Course Number	Course Title	Credit Hours
Major Courses		
* BIO 265	Anatomy and Physiology II	4
CHE 101 or *CHE 111	Introductory Chemistry or General Chemistry I	4
^* HES 345	Principles of Exercise Prescription	2
^*π HES 351	Statistics (see General Education below)	-
^* HES 365	Introduction to Pharmacology	3
^* HES 381	Nutrition and Energy Metabolism	3
ПЕЗ 382	Functional Anatomy and Application	3
HES 462	Cardiovascular Function and Electrophysiology	3
ПЕЗ 4/3	Biomechanical and Anatomical Analysis of Human Movement	4
^* HES 474	Physiology of Exercise	3
ПЕЗ 4/3	Physiology of Exercise Lab	2
HES 480	Senior Seminar	1
^ HPR 151	Introduction to Health, Human Performance, and Recreation	3
^* HPR 178	Aerobic Activities	2
^{^*} HPR 179	Strength and Power Training	2
Health and Exercise Scien	ce Major Credit Hours	39
General Education		
Community of Learners C		
⁺ COR 100	Life in Community	2
^{+*} COR 200	Community Place and Responsibility	2
^{+*} COR 374/375	Community Across Cultures	4
* COR 300	Community and Christian Tradition	2
* COR 400	Community to Come	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Courses	•	
^{^*} ENG 104	College Writing	3
*# ENG 304	Writing and Research	3
^{^π} HPR 153	Foundations of Physical Fitness, Health, and Wellness	3
^ SPE 100 or SPE 212	Oral Communication or Fundamentals of Speech	2 or 3
Liberal Arts Pathways Cou	urses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π HES 351	Statistics (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
BIO 264	Anatomy and Physiology I (Science Pathway)	4
Social Science	See General Education Section for approved courses	3
General Education Credit	Hours	52-53
Electives		28-29
B.S. in Health and Exe	ercise Science Total Credit Hours	120

HEALTH AND EXERCISE SCIENCE

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- # Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Health and Exercise Science Learning Outcomes

Students majoring in health and exercise science will demonstrate preparedness for careers in fields of health and exercise science and recreation. Students will be able to identify anatomical components of the human body and explain how movement and nutrition impact health. Students will be able to assess health-risk and prescribe an appropriate exercise and health regimen.

Curriculum Design

The health and exercise science program is carefully designed to provide to students with knowledge, skills, and abilities congruent with careers in the field and tailored according to guidelines of recognized professional organizations in the fields of exercise science and sports medicine.

Program Oversight

The health and exercise science major is overseen by the Department of Health and Human Performance. Courses with HES, HPR, and REC numbers are administered by this department. Questions about the major should be directed to the department chair.

History (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
π HIS 121	History of Civilization I (see General Education below)	-
HIS 141	United States to 1877	3
HIS 302 and HIS 303	19 th Century Europe and 20 th Century Europe	3 and 3
HIS 309	Civil War and Reconstruction	3
HIS 310	20 th Century America	3
HIS 478	History Seminar	3
HIS 480	Philosophy of History	3
Choose one course from the f	ollowing	
HIS 304	Geography and History of Russia and the Former Soviet Union	3
HIS 331	China, India, Japan	3
HIS 332	Africa	3
HIS 334	The Middle East	3
HIS 335	East Asia	3
Choose HIS elective course	es not already used	8
History Major Credit Ho	ours	32
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
 BIB 217 and BIB 218 	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Courses		
^{^*} ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways C	ourses	
Art	See General Education Section for approved courses	2
π HIS 121	History of Civilization I (History Pathway)	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Credit Hours		51-52
Electives		36-37
B.A. in History Total Credit Hours		120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\mbox{\tiny π}}$ A major course that meets a General Education requirement.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

History Paired Major

Course Number	Course Title	Credit Hours
Major Courses		
π HIS 121	History of Civilization I (History Pathway in Gen. Ed.)	3
HIS 141	United States to 1877	3
HIS 302	19 th Century Europe	3
HIS 303	20 th Century Europe	3
HIS 309	Civil War and Reconstruction	3
HIS 310	20 th Century America	3
HIS 478	History Seminar	3
HIS 480	Philosophy of History	3
Choose courses from the fo	ollowing to total at least 4 credit hours	
HIS 304	Geography and History of Russia and the Former Soviet Union	3
HIS 331	China, India, Japan	3
HIS 332	Africa	3
HIS 334	The Middle East	3
HIS 335	East Asia	3
HIS 390	Independent Study	1-3
History Paired Majo	or Total Credit Hours	28 @

Symbol Key

- $^{\pi}$ A major course that meets a General Education requirement.
- [®] Approved courses from the primary major or other electives may count toward the paired history major to comprise the required 30 credit hours for a major.

History Learning Outcomes

Students in the history major will articulate an understanding of the development of ancient, medieval, and modern civilizations. Students will demonstrate skills in analysis and evaluation of the past as sources of critical inquiry into the nature of current issues. Students in the history major will be prepared for graduate study in history, historical preservation, museum administration, law, or seminary.

Upper-level Course Requirements

Students in the history major should include upper-level electives (numbered 300-499) to ensure they will meet the graduation requirement of 36 upper-level credit hours.

Complementary Study

A background in the other social sciences such as geography, sociology, economics, politics, and non-English language are strongly recommended as complementary to the history major.

Study Abroad

Students in the history major may strongly benefit from and are encouraged to consider studying a semester off campus at one of the many programs described in the Cross Cultural Studies (CCS) section of the catalog. A semester off campus may also fulfill the CCS requirement and some Gen. Ed. requirements.

Program Oversight

The history major is overseen by the Department of History, Geography, and Politics. Courses with the HIS, GEO, POL, and SST numbers are administered by this department. Questions about the history major should be directed to the department chair.

History Secondary Education (B.A.)

	O mid	C 11. II
Course Number	Course Title	Credit Hours
Required Support Course		
GEO 221	Introduction to Geography	3
POL 213	American National Government	3
Choose one course from the		2
ECN 101	Introduction to Economics	3
* ECN 222	Introduction to Macroeconomics	3
Major Courses		
^{^π} HIS 121	History of Civilization I (see General Education below)	-
^ HIS 141	United States to 1877	3
^ HIS 302	19 th Century Europe	3
^ HIS 303	20 th Century Europe	3
^ HIS 309	Civil War and Reconstruction	3
^ HIS 310	20 th Century America	3
HI2 201	Michigan History	3
HIS 4/8	History Seminar	3
^ HIS 480	Philosophy of History	3
Choose one course from the		
^ CHI/HIS 337	Chinese Civilization and Culture	3
^ HIS 304	Geography and History of Russia and the Former Soviet Union	3
^ HIS 331	China, India, Japan	3
^ HIS 332	Africa	3
^ HIS 334	The Middle East	3
^ HIS 335	East Asia	3
Choose HIS elective courses	not already used	2
Required Support and Hi	story Content Area Credit Hours	38
Secondary Education F	Professional Program Courses	
§ EDU 140 and EDU 140L	Exploring Critical Skills for the Professional Educator and Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
§* EDU 336	Teaching at the Secondary Level (or minor methods course)	2
§* EDU 344	Teaching History and Social Studies at the Secondary Level	2
^* EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^{‡*} EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
Total Credit Hours Requi	red for Education Courses	33
General Education		
Community of Learners (Ore Courses	
* COR 100	Life in Community	2
+ COR 200	Christ, Culture, and Diversity	2
* COR 374	Preparing for Cross Cultural Studies	1
+ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
		-
Biblical Studies Courses	Old Tastament Survey	2
+ BIB 217 + BIB 218	Old Testament Survey	3
* BIB 218	New Testament Survey	3
Liberal Arts Skills Courses	S	

HISTORY SECONDARY EDUCATION §* ENG 104 College Writing 3 §*# ENG 304 Writing and Research 3 **HPR 101** Personal Fitness and Wellness 2 Speech See General Education Section for approved courses 2 **Liberal Arts Pathways Courses** 2 See General Education Section for approved courses Art n HIS 121 History of Civilization I (History Pathway) 3 Literature See General Education Section for approved courses 3 Mathematics See General Education Section for approved courses 3 See General Education Section for approved courses 2 Music 3 Philosophy See General Education Section for approved courses Science with lab See General Education Section for approved courses 4 $^{^{\pi}}$ EDU 230 Educational Psychology (Social Science Pathway) 3 **General Education Credit Hours** 51 Choose a certifying minor (see Teacher Education for more information) 20 **Total B.A. in History Secondary Education Credit Hours** 139

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible alternative course or exam option to fulfill this requirement.
- Major or professional program course that meets a General Education requirement.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

History Secondary Education Learning Outcomes

Students in the history major will articulate an understanding of the development of ancient, medieval, and modern civilizations. Students will demonstrate skills in analysis and evaluation of the past as sources of critical inquiry into the nature of current issues. Students will be prepared to take the subject area teacher certification test and teach in secondary schools in the state of Michigan.

Teacher Certification and GPA

Students in this program should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC). Students must have a 3.0 cumulative GPA in the major and minor content areas to be eligible for certification.

Program Oversight

The history majors are overseen by the Department of History, Geography, and Politics. Courses with the HIS, GEO, POL, and SST numbers are administered by this department. Questions about the majors should be directed to the department chair.

The secondary education professional portion of this degree program is overseen by the School of Education. For additional teacher education policies and requirements, please refer to the Teacher Education section of this catalog.

Human Services (B.S.) This program is delivered online and follows SAU Global policies and practices.

Course Number	Course Title	Credit Hours
Major Courses	Applied Contal NA die	2
COM 354 § PHI 314	Applied Social Media Ethics	3 3
* PSY 305	Abnormal Psychology	3
* PSY 422	Counseling Psychology	3
π SOC 311	Racial and Ethnic Relations (satisfies ½ cross cultural requirement)	3
§ SWK 352	Research Design	3
Choose one of the following	-	
ORM 368	Financial Resource Management	3
ORM 403	Organizational Behavior	3
Choose one of the following		
§ SWK 305	Human Behavior in the Social Environment	3
* PSY 309	Lifespan Development	3
Choose two courses from the	e following to total 6 credit hours‡	
ORM 368	Financial Resource Management (if not already used)	3
ORM 403	Organizational Behavior (if not already used)	3
* PSY 354	Social Psychology	3
* PSY 375	Psychology of Personality	3
PSY/SWK 351	Statistics Course (mathematics pathway requirement)	3
PSY 242	Death, Grief and Loss	3
SOC 246	Substance Abuse and Society	3
Human Services Major Cr	redit Hours	30
General Education		
Community of Learners C	Core Courses	
⁺ COR 110	Christ and the University Experience	3
⁺ COR 320	Christian Life and Thought	3
COR 310	Christian Faith and Scripture	3
COR 410	Christian Perspectives on Culture and Diversity	3
 Cross Cultural Course 	A non-Western HIS/GEO course (satisfies ½ cross cultural requirement)	3
Liberal Arts Skills Courses	5	
^*# ENG 104	College Writing	3
^ ENG 304	Writing and Research	3
^# SPE 212	Fundamentals of Speech	3
Liberal Arts Pathway Cou	rses	
Art or Music	See SAU Global General Education Section for approved courses	Minimum 2
Humanities	See SAU Global General Education Section for approved courses	Minimum 2
Mathematics	See SAU Global General Education Section for approved courses	Minimum 2
Science with lab	See SAU Global General Education Section for approved courses	Minimum 2
Social Science	See SAU Global General Education Section for approved courses	Minimum 2
PSY 100	Introduction to Psychology (Social Science 2)	3
SOC 101 or SWK 281	Intro. to Sociology or Intro. to Social Work (Social Science 3)	3
General Education Credit Hours		40
Possible Electives		50
B.S. in Human Service	es Total Credit Hours	120

HUMAN SERVICES

Symbol Key

- [^] Grade of "C" or better required.
- * This course has a prerequisite.
- § Prerequisite courses are recommended. See course descriptions.
- [#] Possible waiver by exam.
- ^π A major course that meets General Education requirements.
- ⁺ Waived with specific number of transfer credit hours upon matriculation to SAU.
- ‡ An upper-level (300-499) social science course may substitute upon approval.

Human Services Learning Outcomes

Students in the human services major, within the context of a Christian worldview, will exhibit the knowledge, skills, and abilities necessary for effectively managing people, projects, and processes within an organizational environment. Students will express understanding of the causes of and treatments for mental disorders. Students will exhibit knowledge of the primary research methods used by professionals and they will access and articulate research findings in the human services field. Students will explain the major models of human development and communicate understanding of group and individual behavior in organizations. Students will develop a framework for analyzing selected current and vital moral problems. Students will demonstrate comprehension of the diversity of races and cultures that compose U.S. society. Students will effectively execute social media campaigns.

Transfer General Education and Electives

It is very likely that transfer courses meeting the requirements for the General Education program at SAU will be more credit hours than what is listed in the program. If that is the case, students will apply those extra credit hours to possible electives.

Upper-level Course Credit Requirements

Students are required to complete 36 credit hours in upper-level courses (numbered 300 and above) in order to graduate. However, the number of upper-level course credits built into this program do not total 36. Students in the human services program should include upper-level coursework in their electives to ensure they will meet graduation requirements.

General Education Courses at SAU

Students who do not transfer courses to meet General Education requirements may take those courses at SAU or apply prior learning credit to meet those requirements. However, most courses offered at SAU that meet the requirements are worth more credit hours than what is listed in the program. Any additional credit hours above the listed number for the required courses will apply to the possible elective credit hours.

Program Oversight

The human services major is an interdisciplinary program overseen by the School of Social Sciences. Questions about this major should be directed to the school dean.

Integrated Science Secondary Education-Comprehensive (B.A.)

Course Number	Course Title	Credit Hours
Major Subject Area Cou		
^ BIO 111	Introductory Biology I (see General Education below)	-
^ BIO 112	Introductory Biology II	4
^ BIO 206	Genes and Speciation	3
^{^*} BIO 261 or BIO 281	Human Anatomy or Environmental Science	4
^* CHE 111	General Chemistry I	4
^* CHE 112	General Chemistry II	5
^* CHE 201	Organic Chemistry I	4
^* CHE 202	Organic Chemistry II	4
^ NSC 200	Elementary Science Survey-Science by Inquiry	4
^ PHY 120	Introduction to Earth Science	4
^ PHY 131	Meteorology and Planetary Science	4
^{^*} PHY 211	Modern University Physics I	4
^* PHY 212	Modern University Physics II	4
Integrated Science Majo	or Subject Area Credit Hours	48
Secondary Education	Professional Program	
§ EDU 140/140L	Exploring Critical Skills for the Professional Educator and Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology	-
^* EDU 271	The Diverse Learner	4
§* EDU 336	Teaching at the Secondary Level	2
§* EDU 343	Teaching Science at the Secondary Level	2
^ EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^* EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
Secondary Education Pr	ofessional Program Courses	33
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
* BIB 217	Old Testament Survey	3
* BIB 218	New Testament Survey	3
	•	J
Liberal Arts Skills Course		2
§* ENG 104	College Writing	3
ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways C		_
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^* π MAT 201	Calculus I (Mathematics Pathway)	4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3

INTEGRATED SCIENCE SECONDARY EDUCATION - COMPREHENSIVE

B.A. in Integrated Science Secondary Education - Comp. Total Credit Hours		133
General Education Credit Hours		52
^{^π} EDU 230	Educational Psychology (Social Science Pathway)	3
^*π BIO 111	Introductory Biology I (Science Pathway)	4

Symbol Key

- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible alternative course or exam option to fulfill this requirement.
- π A major subject area course or professional program course that meets a General Education requirement.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Integrated Science Learning Outcomes

Students in the integrated science major will examine the concepts of the integration of various scientific fields and the application of science to daily life. Students will demonstrate effective science instruction to secondary school students.

Teacher Certification

Students in this program should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC).

Minimum GPA Requirement

Students must have a 3.0 cumulative GPA in the major subject area to be eligible for certification.

Program Oversight

The integrated science secondary education – group major is overseen by the School of Natural Science. The education portion of this degree program is overseen by the School of Education. For additional teacher education policies and requirements, please refer to the Teacher Education section of this catalog.

Integrated Science Secondary Education-Group (B.A.)

Carries Normban	Course Title	Coo dit Harres
Course Number	Course Title	Credit Hours
Major Subject Area Cour		
DIO 111	Introductory Biology I (see General Education below)	-
BIO 206	Genes and Speciation	3
DIO 201 01 DIO 201	Human Anatomy or Environmental Science	4
^* CHE 111 and CHE 112	General Chemistry I and General Chemistry II	4 and 5
^* CHE 201	Organic Chemistry I	4
NSC 200	Elementary Science Survey-Science by Inquiry	4
 PHY 120 and PHY 131 PHY 211 	Introduction to Earth Science and Meteorology and Planetary Science	4 and 4
hut 511	Modern University Physics I	4
	r Subject Area Credit Hours	36
Secondary Education F		
§ EDU 140/140L	Exploring Critical Skills for the Professional Educator and Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
§* EDU 336	Teaching at the Secondary Level (or minor methods course)	2
§* EDU 343	Teaching Science at the Secondary Level	2
^ EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^* EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
Secondary Education Pro	fessional Program Courses	33
General Education		
Community of Learners (Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
* COR 374 and COR 375	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
	,	3 4114 3
Liberal Arts Skills Courses		2
§* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co		
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π MAT 201	Calculus I (Mathematics Pathway)	4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
^*π BIO 111	Introductory Biology I (Science Pathway)	4
^{^π} EDU 230	Educational Psychology (Social Science Pathway)	3 52
General Education Credit Hours		
Choose a certifying minor (s	ee Teacher Education for more information)	20
B.A. in Integrated Sci	ence Secondary Education - Group Total Credit Hours	141

INTEGRATED SCIENCE SECONDARY EDUCATION - GROUP

Symbol Key

- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible alternative course or exam option to fulfill this requirement.
- π A major subject area course that meets a General Education requirement.
- ^Δ A required support course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Integrated Science Learning Outcomes

Students in the integrated science major will examine the concepts of the integration of various scientific fields and the application of science to daily life. Students will demonstrate effective science instruction to secondary school students.

Teacher Certification

Students should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC).

Minimum GPA Requirement

Students must have a 3.0 cumulative GPA in the major subject area to be eligible for certification.

Program Oversight

The integrated science secondary education – group major is overseen by the School of Natural Science. The education portion of this degree program is overseen by the School of Education. For additional teacher education policies and requirements, please refer to the Teacher Education section of this catalog.

International Business (B.S.)

	a mul	0 11. 77
Course Number	Course Title	Credit Hours
Major Courses		
ACC 221	Principles of Accounting I	3
BUS 271	Business Law I	3
BUS 107	Foundations of Leadership and Ethics	3
BUS 162 and BUS 232	Business Computer Applications and Business Seminar	1 and 1
BUS 325 or BUS 426	Principles of Mgmt. or Operations and Supply Chain Mgmt.	3
*π BUS/HES/MAT/PSY 351	Statistics (see General Education below)	-
BUS 354	Statistical Applications for Business	1
* BUS 424	Strategic Management	4
*π ECN 221	Introduction to Microeconomics (see General Education below)	-
* ECN 222	Introduction to Macroeconomics	3
* FIN 362	Principles of Finance	3
IBS 223	Biblical Foundation of International Business	3
IBS 305	Principles of International Business	3
IBS 385	Practicum	3
MKT 221	Marketing Principles	3
SDL 120	Life/Work Planning	1
# 1XX-4XX Language	12 credit hours of non-English language (6 in the same language)	12
1707 4707 Language		12
Choose two courses from the		
COM 368	Intercultural Communication	3
POL 312	International Relations	3
POL 322	Globalization: International Economics	3
SOC 311	Racial and Ethnic Relations	3
Total Credit Hours for the	e International Business Major	56
General Education		
Community of Learners C	ore Courses	
+ COR 100	Life in Community	2
+ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374 and COR 375	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
	Christian Life and vocation	2
Biblical Studies Courses		
 BIB 217 and BIB 218 	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Courses	3	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
·	• •	-
Liberal Arts Pathways Co		
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
*π BUS/HES/MAT/PSY 351	Statistics (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
*π ECN 221	Introduction to Microeconomics (Social Science Pathway)	3
General Education Credit	Hours	51
Electives		13
	Ducinoss Total Crodit Hours	
b.s. in international	Business Total Credit Hours	120

INTERNATIONAL BUSINESS

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible waiver by exam.
- ^π A major course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

International Business Learning Outcomes

Students in the international business major will learn effective skills in communication, leadership, logic and critical thinking, and will demonstrate a strong intellectual capacity while developing competencies in international business for a career with domestic or international organizations. Students will build on the foundation of a biblical worldview to understand the importance of integrity, ethics, and content knowledge. Students will demonstrate cultural understanding and language proficiency. Students will be equipped to work effectively in a global business environment.

Study Abroad

Though not mandatory, students in the international business major are highly encouraged to broaden their cross-cultural preparation while strengthening language skills by participating in a semester abroad program approved by the international business faculty. Information about study abroad opportunities are found in the Off-Campus and Study Abroad section of this catalog. Courses in the General Education and major, including language courses, may be met through a semester abroad experience. Students should consult with their academic advisor and the Office of Registration and Records for specifics.

Non-English Language Information

Students may waive 6 credit hours of the non-English language requirement for every two years they have taken the same language in high school with grades of "B" or better. For example, if students take two years of Spanish and two years of French, or if they have taken four years in high school of the same language, with grades of "B" or better, they will waive all 12 credit hours of the requirement. No college credit is awarded for high school language alone, although credit may be awarded for eligible scores on AP tests. Credit may also be awarded for up to 12 credit hours of language (100- and 200-level language courses) with eligible scores on CLEP tests.

Program Oversight

The international business major is overseen by the Gainey School of Business. Courses with ACC, BUS, ECN, ENT, FIN, IBS, MKT, and ORM numbers are administered by this department. Questions about this major should be directed to the school dean.

Marketing (B.S.)

Course Number		Cwadit Hayma
Course Number	Course Title	Credit Hours
Major Courses		
ACC 221	Principles of Accounting I	3
* ACC 222	Principles of Accounting II	3
BUS 107	Foundations of Leadership and Ethics	3
BUS 271 *π RUS/HFS/MΔT/PSV 351	Business Law I	3
DO3/11E3/141A1/131331	Statistics (see General Education below)	-
BUS 354 COM 110 or *ART 272	Statistical Applications for Business	1 2 or 4
IBS 223 or IBS 305	Communication Technology or Introduction to Graphic Design Biblical Foundations of Int'l Business or Principles of Int'l Business	3 or 4 3
*π ECN 221	Introduction to Microeconomics (see General Education below)	-
MKT 207	Advertising	3
MKT 221	Marketing Principles	3
MKT 275 and MKT 340	Sales and Consumer Relations	3 and 3
MKT 341	Retailing	3
MKT 347	Public Relations	3
MKT 385	Practicum	3
MKT 452	Marketing Research and Design	3
MKT 461	Marketing Strategy	3
Choose at least 6 credit hours f		· ·
* APR/MKT 309	Advertising Strategies	3
* APR 311	Corporate Communication	3
BUS 403 or *COM 404	Argument and Persuasion for Business or Persuasion	3
BUS 325 or BUS 426	Principles of Mgmt. or Operations and Supply Chain Mgmt.	3
* FIN 362	Principles of Finance	3
WRT 216	Writing for the Media	3
Marketing Major Credit		52-53
		5- 5-
General Education		
Community of Learners (
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
 COR 374 and COR 375 	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
+ BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Course		
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
•	• •	2
Liberal Arts Pathways Cour		•
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature *** PLIC/HEC/MAT/DCV 251	See General Education Section for approved courses	3
*π BUS/HES/MAT/PSY 351	Statistics (Mathematics Pathway)	3
Music	See General Education Section for approved courses See General Education Section for approved courses	2 3
Philosophy Science with lab	See General Education Section for approved courses See General Education Section for approved courses	4
*π ECN 221	Introduction to Microeconomics (Social Science Pathway)	3
General Education Credi		51
	LITUUIS	
Electives		17
B.S. in Marketing To	tal Credit Hours	120

MARKETING

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

Marketing Learning Outcomes

Students in the marketing major will demonstrate effective skills in generating and supporting important market exchanges between customers and for profit or nonprofit organizations. Students will analyze various marketing strategies. Students will apply marketing research and strategies to create marketing plans. Marketing majors will demonstrate analytical and creative thinking in designing appropriate marketing mixes for the business environment. Students will articulate an understanding of overall ethics in strategic marketing. Graduates of the marketing major will be prepared for a career in marketing related positions.

Program Oversight

The marketing major is overseen by the Gainey School of Business. Courses with ACC, BUS, ECN, ENT, FIN, IBS, MIS, MKT, and ORM numbers are administered by this school.

Mathematics (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
^*π MAT 201	Calculus I (see General Education below)	-
* MAT 202	Calculus II	4
* MAT 232	Proof and Discrete Mathematics	3
* MAT 302	Vector Calculus	3
* MAT 311	Differential Equations	3
* MAT 321	Abstract Algebra I	3
* MAT 322	Abstract Algebra II	2
* MAT 352	Linear Algebra	3
* MAT 401	Real Analysis	3
Choose one option from the foll	owing.	
* MAT 300-499	Two MAT courses (excluding courses listed above or MAT 330, 331, and 342)	6-8
* CPS 200-499	Two CPS courses	6-8
* PHY 200-499	Two PHY courses	6-8
Mathematics Major Cred	it Hours	30-32
General Education		
Community of Learners C	ore Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Courses	;	
^{^*} ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	urses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π MAT 201	Calculus I (Mathematics Pathway)	4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Credit	Hours	52
Electives		36
B.A. in Mathematics	Fotal Credit Hours	120

MATHEMATICS

Symbol Key

- [^] Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Mathematics Learning Outcomes

Students in the mathematics major will demonstrate quantitative literacy. Students will analyze and apply mathematic concepts and theories from the two major strands of mathematics: pure/classical mathematics and applied mathematics. Students will be prepared for a career in a variety of mathematics related employment or for graduate school.

Courses for Graduate School Preparation

Recommended courses for students who plan to attend graduate school after graduation are as follows:

MAT 322 Abstract Algebra II (2)

MAT 421 Modern Geometry (3)

MAT 422 Seminar: Topics in Advanced Mathematics (1-3)

Courses for Business Career Preparation

Recommended courses for students who plan to enter business or industry after graduation are as follows:

MAT 363 Theory of Probability I

MAT 364 Theory of Probability II

At least two courses in computer science beyond CPS 150

Complementary Academic Programs

Students maximize their chances for employment and career advancement by obtaining a minor or second major in biology, business, chemistry, computer science, economics, accounting, health and exercise science, or physics.

Curriculum Design

The mathematics major curriculum is consistent with the recommendations of Mathematical Association of America (www.maa.org), National Council of Teachers of Mathematics (www.nctm.org) and Conference Board of the Mathematical Sciences.

Program Oversight

The mathematics major is overseen by the Department of Mathematics in the School of Engineering. Courses with the MAT number are administered by this department. Questions about this major should be directed to the department chair.

Mathematics Secondary Education (B.A.)

Course Number	Course Title	Credit Hours
Subject Area Courses		
^* MAT 201	Calculus I (see General Education below)	-
^* MAT 202	Calculus II	4
IVIA 1 302	Vector Calculus	3
IVIA I 232	Proof and Discrete Mathematics	4
IVIA I 311	Differential Equations	3
IVIAT 321	Abstract Algebra I	3
IVIA 1 352	Linear Algebra	3
WIAT/LDO 342	Foundations of Secondary School Math (EDU methods course)	3
IVIAT 351	Statistics	3
^* MAT 401	Real Analysis	3
^* MAT 421	Modern Geometry	3
•	ubject Area Credit Hours	32
Secondary Education	on Professional Program	
§ EDU 140/140L	Exploring Critical Skills for the Professional Educator and Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
§* EDU 336	Teaching at the Secondary Level (or minor methods course)	2
^* EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^{‡*} EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
Secondary Education	Professional Credit Hours	31
General Education		
Community of Learne	ers Core Courses	
⁺ COR 100	Life in Community	2
+ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
+ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
		2
Biblical Studies Cours		2 12
* BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Cou	rses	
§* ENG 104	College Writing	3
§*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ SPE 100	Oral Communication	2
Liberal Arts Pathways	Courses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
* ENG 112	World Literature (Literature Pathway)	3
^*π MAT 201	Calculus I (Mathematics Pathway)	4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
*π EDU 230	Educational Psychology (Social Science Pathway)	3
General Education Cr	edit Hours	52
Choose a certifying minor	r (see Teacher Education for more information)	20
	cs Secondary Education Total Credit Hours	135
Zan in Padilelliati	22 222 Many Landadon I dan di cali libary	100

MATHEMATICS SECONDARY EDUCATION

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible alternative course or exam option to fulfill this requirement.
- ^π A major course or professional program course that meets General Education requirements.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Mathematics Secondary Education Learning Outcomes

Students in the mathematics secondary education major will demonstrate quantitative literacy. Students will analyze and apply mathematic concepts and theories from the two major strands of mathematics: pure/classical mathematics and applied mathematics. Students will be prepared to teach in elementary schools in Michigan.

Minimum GPA Requirements

Students must have a 3.0 cumulative GPA in the major and minor content areas to be eligible for certification.

Teacher Certification

Students should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC).

Program Oversight

The mathematics major is overseen by the Department of Mathematics in the School of Engineering. Courses with the MAT number are administered by this department. Questions about this major should be directed to the department chair. The secondary education professional portion of this degree program is overseen by the School of Education. For additional teacher education policies and requirements, please refer to the Teacher Education section of this catalog.

Mechanical Engineering (B.S.)

8		
Course Number	Course Title	Credit Hours
Major Courses		
*π CHE 111	General Chemistry I (see General Education below)	-
^ CPS 201	Coding I	4
^ EGR 100	Introduction to Engineering I	3
EGR 110	Basics of Engineering Design	1
EGR 112	Introduction to Engineering II	1
EGR 203	Electric Circuits	4
^* EGR 206	Statics	3
EGR 210	Dynamics w/ Lab	4
^* EGR 326	Mechatronics	3
EGR 331	Mechanics of Materials	3
EGR 332	Thermodynamics	3
EGR 401	Senior Design I	4
EGR 402	Senior Design II	4
^* EGR 418	Fluid Dynamics	4
^* EGR 419 ^* EGR 4**	Vibrations	3
EGN 4	Engineering Elective	3
EGN 4	Engineering Elective	3
EGR 4	Engineering Elective	3
^*π MAT 201	Calculus I (see General Education below)	-
* MAT 202	Calculus II	4
* MAT 302	Vector Calculus	3
* MAT 311	Differential Equations	3
* MAT 351	Statistics	3
* MAT 352	Linear Algebra	3
PH1 211	Modern University Physics I	4
* PHY 212	Modern University Physics II	4
Mechanical Engineering N	lajor Credit Hours	77
General Education		
Community of Learners Co	ore Courses	
+ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374 and COR 375	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
	christian Ene and vocation	2
Biblical Studies Courses		
⁺ BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Courses		
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Cou	rses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π MAT 201	Calculus I (Mathematics Pathway)	4
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
*π CHE 111	General Chemistry I (Science Pathway)	4
Social Science	See General Education Section for approved courses	3
General Education Credit		52
Total B.S. in Mechanical Engineering Credit Hours		129
Total Dibi III Picciialli	ar angineering or east stours	1 m /

MECHANICAL ENGINEERING

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ^π A major course that meets General Education requirements.
- * Possible waiver with a specified number of transfer credits upon first time admission.

Mechanical Engineering Learning Outcomes

Students in mechanical engineering major will be able to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics. Students will conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions. Students will apply engineering design to produce ethical solutions that meet specific needs while considering public health, safety, and welfare, as well as global, cultural, societal, environmental, and economic factors. Students will function effectively on a team on which members together provide leadership, create a collaborative and inclusive environment, plan tasks, establish goals, and meet objectives. Students will effectively communicate with a range of audiences and incorporate a faith-based worldview into their profession.

Minimum Credits

Students in the mechanical engineering program may finish the program with fewer than the stated 132-133 credit hours, depending on specific variables. For example, course credit allowed to be waived may be deducted from the total number of required credits in the program. However, students must complete the minimum of 120 credits required for graduation.

Admissions Criteria

Students may be officially admitted to the major subsequent to passing MAT 201 Calculus I with a grade of "C" or better and after a successful interview with the engineering faculty.

Transfer Students

Due to course sequencing and program requirements, transfer students into the mechanical engineering major may take longer than a cumulative of four years to complete the major, and they will likely have more than 133 credit hours.

Program Oversight

The mechanical engineering major is overseen by the School of Engineering. Courses with CPS, EGR, and MAT prefixes are administered by this school.

Music (B.A.)

C	ourse Number	Course Title	Credit Hours
M	ajor Courses		
	MUS 105	Music Theory I: Literacy	3
*	MUS 106	Music Theory II: Harmony	3
*	MUS 205	Music Theory III: Orchestration	3
*	MUS 206	Music Theory IV: Advanced Harmony	3
	MUS 212	Music Production I	2
	MUS 230 or MUS 240	Ensemble (2 semesters) (see General Education below)	-
*	MUS 230 or MUS 240	Ensemble (2 semesters)	1 each = 2
*	MUS 310	Applied Lessons (primary instrument or voice) (8 semesters)	1 each=8
*	MUS 313	The History of Music Literature to 1750	3
*	MUS 314	The History of Music Literature since 1750	3
*	MUS 363	Conducting	2
*	MUS 386	Junior Recital	0
*	MUS 486	Professional Recital	0
	MUS 487	Piano Proficiency	0
M	usic Major Credit Hours		32
G	eneral Education		
Co	ommunity of Learners Co	ore Courses	
+	COR 100	Life in Community	2
+	COR 200	Christ, Culture, and Diversity	2
+	COR 374	Preparing for Cross Cultural Studies	1
+	COR 375	Cross Cultural Studies	3
	COR 300	Christian Faith and Community	2
	COR 400	Christian Life and Vocation	2
Bi	blical Studies Courses		
+	BIB 217	Old Testament Survey	3
+	BIB 218	New Testament Survey	3
Ιij	beral Arts Skills Courses	·	
۸*	ENG 104	College Writing	3
^*#	ENG 304	Writing and Research	3
	HPR 101	Personal Fitness and Wellness	2
٨	Speech	See General Education Section for approved courses	2
ıi	beral Arts Pathways Coເ	• •	_
LI	Art	See General Education Section for approved courses	2
	History	See General Education Section for approved courses	3
	Literature	See General Education Section for approved courses	3
	Mathematics	See General Education Section for approved courses	3
π	MUS 230 or MUS 240	Ensemble (2 semesters) (music portion of the Fine Arts pathway)	1 each=2
	Philosophy	See General Education Section for approved courses	3
	Science with lab	See General Education Section for approved courses	4
	Social Science	See General Education Section for approved courses	3
T		···	51
Total General Education Credit Hours		37	
Electives (may use electives to acquire optional concentrations)			
В	.A. in Music Total Cr	edit Hours	120
0	ptional Music Concent	trations (for music majors only)	
	usic Composition Conce		
*	MUS 315	Music Production II	4
*	MUS 325	Scoring for Media	2
*	MUS 310	Applied Composition Lessons (3 semester for 2 credits or 6 semesters)	1-2 each=6

Music Performance Concentration MUS 230/240 Ensembles (4 semesters) 4 MUS 310 Applied Lessons (primary instrument) (4-8 semesters) 8 Piano Pedagogy Concentration MUS 250 Practicum in Pedagogy 1 MUS 308 Survey of Keyboard Literature 2 MUS 309 Piano Pedagogy 3 MUS 310 Applied Piano Lessons (2-4 semesters) 4 **Vocal Pedagogy Concentration** MUS 250 Practicum in Pedagogy 1 Applied Piano Lessons (2-4 semesters) MUS 310 4 MUS 311 **Vocal Pedagogy** 2

3 2

Symbol Key

MUS 312

MUS 324

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.

Diction

Vocal Literature

* Possible waiver with a specified number of transfer credits upon first-time admission.

Music Learning Outcomes

Music majors will perform a variety of music styles with ensembles and on an individual basis. Students will demonstrate proficiency in performance, composition, conducting and production skills. Students will analyze and articulate understanding of music literature and theory. Students in the music major will be prepared for the many different career possibilities of a professional musician including performance, composition, songwriting, music teaching, and graduate school.

Admission Requirements

Students must perform an entrance audition to be formally admitted as a music major.

Upper-level Course Requirements

Depending on which courses students choose in the music major, they may not acquire 36 upper-level credit hours (numbered 300-499) in their major coursework. However, students are required to complete 36 credit hours of upper-level courses in order to graduate. Students should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Transfer Students

Coursework from other institutions is accepted in accordance with SAU's transfer policies. Placement of students in music programs and courses is subject to verification of skills through an entrance audition and applicable departmental exams. To be officially admitted as a music major, transfer students must perform an entrance audition.

Juries, Sophomore Check and Recitals

Progress made by music majors is monitored in semester "juries" in which the students perform selected compositions and technical skills for the music faculty. At the end of the sophomore year, music majors must perform a sophomore check, a more elaborate jury that includes sight reading and technical skills. Successful completion of the sophomore check is required. Music majors must also perform a junior and professional recital, and faculty approval of the recital satisfies the jury requirement if all performance

requirements have been met. (Details of all music department policies are available in the Music Department Handbook.)

Applied Lessons Credit Hours

Applied lessons meet for one half-hour (30 minutes) each week for 1 credit hour. For students to acquire 2 credit hours of applied lessons in one semester, they will meet for one hour (60 minutes) each week. All applied lessons require significant individual practice outside of the meeting time, as well as attendance of all music labs and performance in at least two music labs a semester. Special topics courses may substitute for applied lessons as approved by the music department.

Ensembles for Majors and Non-majors

Spring Arbor University offers a rich environment for musical participation. Interested students are able to participate in several different kinds of performance ensembles including Chamber Choir, University Singers, Concert Band, String Orchestra, Jazz Band, and contemporary Christian music ensembles. Students perform often in University events and are in demand in area churches. Music scholarships are available to many students, including non-majors, who are active in performance groups and/or accompanying.

Program Oversight

The music major is overseen by the Department of Music. Courses with the MUS number are administered by this department. Questions about the music major should be directed to the department chair.

Music Education (B.A.)

C N 1	(- ··)	0 11.11	
Course Number	Course Title	Credit Hours	
Major Subject Area Cour			
^ MUS 105	Music Theory I: Literacy	3	
IVIO2 100	Music Theory II: Harmony	3	
^* MUS 205	Music Theory III: Orchestration	3	
1003 200	Music Theory IV: Advanced Harmony	3	
^ MUS 212	Music Production I	2	
^{^π} MUS 230 or MUS 240	Ensemble (2 semesters) (see General Education below)	-	
^ MUS 230 or MUS 240	Ensemble (2 semesters)	1 each = 2	
^* MUS 310	Applied Lessons w/Lab (primary instrument/voice; 8 semesters)	2 each = 8	
^* MUS 310	Applied Lessons w/Lab (secondary instrument; 2 semesters)	1 each = 2	
^* MUS 310C	Applied Conducting (concurrently with student teaching)	1	
^* MUS 313	The History of Music Literature to 1750	3	
^* MUS 314	The History of Music Literature since 1750	3	
§* MUS 319	Elementary Methods	3	
^* MUS 323	World Music	2	
§* MUS 349	Secondary Methods	3	
^{^*} MUS 363	Conducting	2	
* MUS 386	Junior Recital	0	
^{^*} MUS 461	Rehearsal Strategies	2	
* MUS 486	Professional Recital	0	
* MUS 487	Piano Proficiency	0	
^{^*} MUS 480	Theory Seminar	2	
Choose a concentration			
Instrumental Concentrat	ion		
§* MUS 311	Vocal Pedagogy	2	
§* MUS 332	Brass Methods	1	
§* MUS 333	Percussion Methods	1	
§* MUS 336	String Methods	1	
§* MUS 337	Woodwind Methods	1	
§* MUS 341	Marching Band Materials/Methods	1	
	Watering Dana Waterials/Wethous	1	
Vocal Concentration §* MUS 211			
10103 311	Vocal Pedagogy	2	
MUS 312	Diction	3	
^{^*} MUS 338	Survey of Instrumental Techniques	2	
Music Major Subject Are	a Credit Hours	54	
Secondary Education F	Professional Program		
§ EDU 140	Exploring Critical Skills for the Professional Educator & Lab	3	
§* EDU 202	Issues and Trends in American Education	2	
^* EDU 230	Educational Psychology (see General Education below)	-	
^* EDU 271	The Diverse Learner	4	
^* EDU 360	Integrating Technology in Education	2	
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3	
^{‡*} EDU 429	Effective Classroom Management, Assessment, and Instruction	3	
§* EDU 430S	Seminar in Teaching: Secondary	3	
^* EDU 450S	Directed Teaching: Secondary	9	
	fessional Program Credit Hours	29	
General Education			
Community of Learners C	Core Courses		
+ COR 100	Life in Community	2	
⁺ COR 200	Christ, Culture, and Diversity	2	
⁺ COR 374	Preparing for Cross Cultural Studies	1	

		MUSIC EDUCATION
		MOSIC EDOCATION
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Course	es	
§* ENG 104	College Writing	3
§*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
[^] Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	ourses	
Art	See General Education Section for approved courses	2
$^{^{\Lambda\pi}}$ MUS 230 or MUS 240	Ensemble (2 semesters) (Fine Arts Pathway)	1 each = 2
History	See General Education Section for approved courses	3
* ENG 112	World Literature (Literature Pathway)	3
Mathematics	See General Education Section for approved courses	3
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
*π EDU 230	Educational Psychology (Social Science Pathway)	3
General Education Credi	t Hours	51
Total B.A. in Music E	ducation Credit Hours	134

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible alternative course or exam option to fulfill this requirement.
- ^T A major course or professional program course that meets General Education requirements.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Music Education Learning Outcomes

Music majors will perform a variety of music styles with ensembles and on an individual basis. Students will demonstrate proficiency in performance, composition, conducting and production skills. Students will analyze and articulate understanding of music literature and theory. Students in the music education major will qualify to be certified to teach K-12 music on a secondary certificate.

Admission Requirements

Students must perform an entrance audition to be formally admitted as a music major.

Transfer Students

Coursework from other institutions is accepted in accordance with SAU's transfer policies. Placement of students in music programs and courses is subject to verification of skills through an entrance audition and applicable departmental exams. To be officially admitted as a music major, transfer students must perform an entrance audition.

Juries, Sophomore Check and Recitals

Progress made by music majors is monitored in semester "juries" in which the students perform selected compositions and technical skills for the music faculty. At the end of the sophomore year, music majors must perform a sophomore check, a more elaborate jury that includes sight reading and technical skills.

MUSIC EDUCATION

Successful completion of the sophomore check is required. Music education majors must also perform a junior and professional recital, and faculty approval of the recital satisfies the jury requirement if all performance requirements have been met. (Details of all music department policies are available in the Music Department Handbook.)

Applied Lessons Credit Hours

Applied lessons meet for one half-hour (30 minutes) each week for 1 credit hour. For students to acquire 2 credit hours of applied lessons in one semester, they will meet for one hour (60 minutes) each week. All applied lessons require significant individual practice outside of the meeting time, as well as attendance of all music labs and performance in at least two music labs a semester. Special topics courses may substitute for applied lessons as approved by the music department.

Teacher Certification

Students in this program should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC). This comprehensive K-12 music education major does not require a certifiable minor.

Program Oversight

The music education major is overseen by the Department of Music in consultation with the School of Education Courses with the MUS number are administered by the music department. Courses with EDU number are administered by the School of Education. Questions about the music education major should be directed to the department chair.

Nursing Pre-licensure Track (B.S.N.)

Course Number	Course Title	Credit Hours
Major Courses		
§* BIO 232	Microbiology for Nurses	3
§* BIO 234	Pathophysiology for Nursing	3
§ BIO 236	Pharmacology for Nursing	3
§* BIO 262	Genetics for Nursing	3
§π BIO 264	Anatomy and Physiology I (see General Education below)	-
§* BIO 265	Anatomy and Physiology II	4
§ CHE 142	General Organic Biochemistry for Nursing	3
^π HES 351 or MAT 351	Statistics (see General Education below)	-
^π HES 381	Nutrition and Energy Metabolism	-
§ NUR 201	Fundamentals of Nursing	4
§ NUR 203	Physical and Health Assessment	3
§ NUR 324	Community Health Theory/Clinical	4
§* NUR 325	Medical Surgical Theory/Clinical I	6
§* NUR 326	Medical Surgical Theory/Clinical II	6
§ NUR 327	Mental Health Theory/Clinical	4
§ NUR 328	OB and Women's Health Theory/Clinical	5
§ NUR 329	Pediatric Theory/Clinical	5
§ NUR 424	Medical Surgical Theory/Clinical III	6
§ NUR 425	Nursing Leadership and Transition	5
§ NUR 426	Evidence-Based Practice	4
§ NUR 443	NCLEX Review	3
^т PSY 100	Introduction to Psychology (see General Education below)	-
Nursing Pre-licensure Ma	ijor Credit Hours	74
General Education		
Community of Learners C		
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Courses	S	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
^π HES 381	Nutrition and Energy Metabolism	3
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	urses	
FAS 152	Fine Arts for Nurses (Fine Arts Pathway)	3
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
$^{\pi}$ HES 351 or MAT 351	Statistics (Mathematics Pathway)	3
Philosophy	See General Education Section for approved courses	3
§π BIO 264	Anatomy and Physiology I (Science Pathway)	4
^π PSY 100	Introduction to Psychology (Social Science Pathway)	3
General Education Credit	Hours	51
B.S. in Nursing Pre-li	censure Track Total Credit Hours	125

Symbol Key

- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Nursing Pre-licensure for Second Bachelor's Degree

The pre-licensure program is available online in an accelerated format for students who have already completed a bachelor's degree. Requirements for this second bachelor's degree consists of:

- the major courses listed in the pre-licensure program curriculum.
- courses in the General Education section of the pre-licensure curriculum noted with the π symbol.
- · COR 310 Christian Faith and Scripture.

Certain transfer courses to meet the requirements for the accelerated program will be evaluated by the nursing department to determine applicability to program requirements based on factors, including but not limited to content of the course, interval of time between when the course was taken and application to the pre-licensure program, and use of course content in professional experience.

Nursing Learning Outcomes

Students in the Bachelor of Science in nursing program will demonstrate the ability to function as a generalist nurse in an independent role in many situations and be responsible for independent decisions and actions. Students will produce evidence-based, therapeutic nursing interventions using the framework of science-based and goal-directed nursing processes, and critical thought. Nursing students will teach clients by providing information for them to make health care decisions, acquire skills, and change behavior. Nursing students will promote health to clients, and when that is not possible, they will provide resources and apply methods to help clients adjust to illness and relieve suffering. Students will collaborate professionally with the multidisciplinary health care team. Students will articulate understanding and apply health care policy. Nursing students will be prepared to assume a leadership role to design nursing systems that meet their clients' overt and covert health care needs.

Program Admission Considerations

Admission to the University does not automatically guaranteed admission into the nursing program. Students are permitted to declare a nursing major upon acceptance into Spring Arbor University (SAU) but will make a formal application to the official nursing program in the spring semester of the freshman year. Students who wish to apply for admission the nursing pre-licensure program should have a strong commitment to living a Christ-like lifestyle and a willingness to explore ways to use nursing as a ministry to transform this world and people's lives for Christ.

Minimum Application and Admission Criteria Recommendations

Meeting the minimum admission criteria recommendations below does not ensure an applicant will be admitted to the official nursing program. This admission decision is considered and made final by the Department of Nursing Admissions Committee. Students who wish to appeal admission decisions should follow appeal processes outlined elsewhere in this catalog.

Criteria for Freshman Students

- 2.67 cumulative college GPA at the time of application
- A minimum grade of "B-" in BIO 234, BIO 264, BIO 265, and CHE 142

Criteria for Transfer Students

- · 2.67 cumulative college GPA
- 2.67 cumulative college GPA in sciences

Criteria for International Students

- If student has access to ACT (24) or SAT (1100)
- TOEFL score of 90 or higher (scores within 2 years)

Criteria for Students with a Previous Degree

· 2.67 cumulative college GPA in last 60 hours

Nursing Licensure

Students desiring nursing licensure are responsible for meeting all requirements of the State Board of Nursing of the state in which they will be practicing whether or not requirements are explicitly stated in this catalog or nursing handbook. Some states may allow nursing licensure to transfer.

Minimum GPA Requirement

Once students have been officially admitted to the nursing major, students must maintain a 2.67 cumulative GPA throughout the program to continue in the major.

Accreditation and Certification

The Spring Arbor University nursing program has been granted full program approval by the Michigan State Board of Nursing and is accredited by the Commission on Collegiate Nursing Education (CCNE), 655 K Street NW, Suite 750, Washington, DC 20001. Phone number: 202.887.6791.

Program Oversight

The nursing majors are overseen by the Department of Nursing. Courses with the NUR number are administered by this department. Questions about the major should be directed to the department chair.

NURSING PRE-LICENSURE TRACK		

Nursing Post-Licensure Track (B.S.N.)

Course Number	Course Title	Credit Hours
Required Support Course	es (typically taken as a part of the nursing associate's degree)	
[@] BIO 100	Principles of Biology	4
BIO 234	Pathophysiology	3
BIO 236	Pharmacology	3
^{§Δ} BIO 264	Anatomy and Physiology I (see General Education below)	-
@ CHE 111	General Chemistry I	4
PSY Course	Approved Psychology Course (may meet Social Science Gen. Ed.)	Minimum 2
Required Support Credit	Hours	16+
Major Courses		
^ NUR 321	Professionalism/Professional Values	3
^ NUR 341	Patient Centered Care I	3
^ NUR 344	Clinical Prevention/Population Health	3
^* NUR 360	Information Management/Patient Care Technologies	3
^* NUR 422	Spiritual Dimensions of Health Care	3
^ NUR 434	Quality Leadership	3
^ NUR 442	Patient Centered Care II	3
[^] NUR 452A, B, C	Evidence-based Practice I	3
^{^π} NUR 453A, B, C	Evidence-based Practice II (see General Education below)	-
§* NUR 494	Senior Nursing Project	2
Nursing Post-licensure T	rack Major Credit Hours	26
General Education		
Community of Learners		
COR 310	Christian Faith and Scripture	3
COR 410	Christian Perspectives on Culture and Diversity	3
Liberal Arts Skills Course	S	
^* ENG 104	College Writing	3
^# ENG 304	Writing and Research	3
^# SPE 212	Fundamentals of Speech	3
Liberal Arts Pathways Co	purses	
Fine Arts	See SAU Global General Education Section for approved courses	Minimum 2
Humanities	See SAU Global General Education Section for approved courses	Minimum 2
^{^π} NUR 453A, B, C	Evidence-based Practice II (Mathematics Pathway)	3
^{§πΔ} BIO 264	Anatomy and Physiology I (Science Pathway)	3
Social Science	See SAU Global General Education Section for approved courses	Minimum 2
Social Science	See SAU Global General Education Section for approved courses	Minimum 2
Social Science	See SAU Global General Education Section for approved courses	Minimum 2
General Education Credi	t Hours	31+
Possible electives		63
B.S. in Nursing-Post	Licensure Track Total Credit Hours	120

Symbol Key

- ^ Grade of "C" or better required.
- § Grade of "C+" or better required.
- * This course has a prerequisite.
- [#] Possible waiver by exam or prior learning assessment.
- $^{\pi}\,$ A major course that meets General Education requirements.
- [®] Possible waiver with prior high school course credit.
- $^{\mbox{\tiny Δ}}$ Required support that meets a General Education requirement.

Nursing Post-Licensure Track Learning Outcomes

Students in the Bachelor of Science in nursing program will demonstrate the ability to function as a generalist nurse in an independent role in many situations and be responsible for independent decisions and actions. Students will produce evidence-based, therapeutic nursing interventions using the framework of science-based and goal-directed nursing processes and critical thought. Nursing students will teach clients by providing information for them to make health care decisions, acquire skills, and change behavior. Nursing students will promote health to clients, and when that is not possible, they will provide resources and apply methods to help clients adjust to illness and relieve suffering. Students will collaborate professionally with the multidisciplinary health care team. Students will articulate understanding of and apply health care policy. Nursing students will be prepared to assume a leadership role to design nursing systems that meet their clients' overt and covert health care needs.

Transfer Course Equivalencies and Substitutions

The SAU Department of Nursing and the Office of Registration and Records will determine which courses taken in the associate's degree program will apply as equivalencies and/or substitutions to the curriculum in the RN-BSN program. Many of the required support and General Education courses will be taken as a part of the associate's degree program, so the 80+ credit hours listed in the curriculum is a high estimate.

Program Requirements

- An associate degree in nursing from an accredited school or a diploma from a National League for Nursing (NLN) accredited school is required for admission.
- Unrestricted, unencumbered, current nursing license from the state of employment. License must be kept current throughout the program.
- At least one-year experience working as a registered nurse preferred.
- Minimum cumulative GPA of 2.5 for all prior college work and maintained through the program.
- General education and nursing support courses must be met in addition to BSN major courses.
- Compliance with all institutional requirements prior to Senior Nursing Project.
- This program is offered online with specific delivery system requirements.

See the nursing program handbook or contact the program advisor for more information.

Writing Curriculum for the Post-Licensure Nursing Program

Because the bachelor's program in nursing is writing intensive, students must demonstrate writing proficiency at the level of at least ENG 104 College Writing or the equivalent. Students who have not already taken ENG 104 or the equivalent are strongly encouraged to do so prior to starting the nursing major courses. Students should work with their academic advisor to schedule this course in their plan as early as possible so they can be prepared for the writing rigors of the nursing program. Students will also need to demonstrate upper-level writing proficiency as a graduation requirement to the level of ENG 304 Writing and Research. This proficiency may be satisfied by passing a writing sample evaluation or by passing ENG 304 with a grade of "C" or better if the writing sample evaluation results in a non-passing grade or the student opts to take the course in lieu of attempting the waiver.

Accreditation and Certification

The Spring Arbor University nursing program is accredited by the Commission on Collegiate Nursing Education (CCNE), 655 K Street NW, Suite 750, Washington, DC 20001. Phone number: 202.887.6791.

Program Oversight

The nursing majors are overseen by the Department of Nursing. Courses with the NUR number are administered by this department. Questions about the major should be directed to the department chair.

Organizational Management (B.S.)

This program is delivered at off-campus sites and online and follows SAU Global policies and practices.

Course Number	Course Title	Credit Hours
Major Courses		
ECN 306	Macroeconomics and Organizational Management	3
ORM 368	Financial Resources Management	3
ORM 403	Organizational Behavior	3
ORM 405	Leadership Development	3
ORM 411	Project Management	3
ORM 412	Lean Management	3
ORM 413	Organizational Diagnosis and Consulting	3
ORM 432	Human Resource Management	3
ORM 443	Organizational Design and Strategy	3
ORM 462	Organizational Change	3
Organizational Managem	nent Major Credit Hours	30
General Education		
Core Courses		
⁺ COR 110	Christ and the University Experience	3
COR 310	Christian Faith and Scripture	3
⁺ COR 320	Christian Life and Thought	3
COR 410	Christian Perspectives on Culture and Diversity	3
 Cross Cultural Course 	A course in diversity (SOC 311 is recommended)	3
 Cross Cultural Courses 	A non-Western HIS/GEO course	3
Liberal Arts Skills Course	S	
^*# ENG 104	College Writing	3
^ ENG 304	Writing and Research	3
^# SPE 212	Fundamentals of Speech	3
Liberal Arts Pathways Co	urses	
Art or Music	See General Education Section for approved courses	Minimum 2
Humanities	See General Education Section for approved courses	Minimum 2
Mathematics	See General Education Section for approved courses	Minimum 2
Science with lab	See General Education Section for approved courses	Minimum 2
Social Science	See General Education Section for approved courses	Minimum 2
Social Science	See General Education Section for approved courses	Minimum 2
Social Science	See General Education Section for approved courses	Minimum 2
General Education Credit	Hours	41
Possible Additional Electives	5	49
B.S. in Organizational Management Total Credit Hours		120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ⁺ Waived with specific number of transfer credit hours upon matriculation to SAU.

Organizational Management Learning Outcomes

The Bachelor of Science in organizational management program is designed to help students gain wisdom in vocation, life, and society by living out the SAU concept through the art and practice of management. The curriculum emphasizes the development of decision making, problem solving, communication, and critical thinking skills necessary for the effective management of people, projects, and processes within organizational environments. The program objectives are categorized into six specific areas: leadership

ORGANIZATIONAL MANAGEMENT

development, effective communication, decision making, problem solving, critical thinking, and an ethical perspective.

Transfer General Education and Electives

It is very likely that transfer courses meeting the requirements for the General Education program at SAU will be more credit hours than what is listed in the program. If that is the case, students will apply those extra credit hours to possible electives.

Upper-level Course Credit Requirements

Students are required to complete 36 credit hours in upper-level courses (numbered 300 and above) in order to graduate. However, the number of upper-level course credits built into this program do not total 36. Students in the organizational management program should include upper-level coursework in their electives to ensure they will meet graduation requirements.

General Education Courses at SAU

Students who do not transfer courses to meet General Education requirements may take those courses at SAU or apply prior learning credit to meet those requirements. However, most courses offered at SAU that meet the requirements are worth more credit hours than what is listed in the program. Any additional credit hours above the listed number for the required courses will apply to the possible elective credit hours.

Program Oversight

The organizational management major is overseen by the Gainey School of Business. Courses with ACC, BUS, ECN, ENT, FIN, IBS, MIS, MKT, and ORM numbers are administered by this school. Questions about this major should be directed to the program director.

Philosophy (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		•
* PHI 301	Great Thinkers of the Western World	3
* PHI 314	Ethics	3 3
BIB 300-499	Any Upper-level BIB course	3
	llowing to total at least 21 credit hours	2
BUS 271	Business Law I	3
* BUS 372 * PHI 200	Business Law II Introduction to Philosophy (see General Education below)	3
PHI 318	War and Peace	3
* PHI 334	Critical Thinking	3
* PHI 381	Philosophy of Religion	3
PHI 390	Independent Study	3
* PHI/REL 394	World Religions	3
* PHI 401	Philosophy of Science	3
* PHI 402	Environmental Ethics	3
PHI 483 or PHI 490	Seminar in Philosophy or Philosophy Honors Project	3
POL/PHI 316	Western Political Thought	3
THE 206	Doctrines of the Christian Faith	3
THE 307	The Holy Spirit, Spiritual Gifts, and Spirit Movements	3
* THE 318	Christian Origins: Heretics and Saints	3
THE 405	The Problem of Evil	3
* THE 411	From Modern to Postmodern Theology	3
Philosophy Major Credit	Hours	30
General Education		
Community of Learners	Core Courses	
+ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300 or CMI 361	Christian Faith and Community or Christian Spirituality & Formation	3
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
* BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Course	es	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co		
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
^π PHI 200	Introduction to Philosophy (Philosophy Pathway)	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Credit Hours		51
Electives		39
B.A. in Philosophy Total Credit Hours		120

PHILOSOPHY

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Philosophy Learning Outcomes

Students in the philosophy major will demonstrate a capacity for analytical and critical judgement. Students will reflect on reality, existence, knowledge, duty, and values for formulate a plan for continuing growth in faith and philosophy of life. Students will articulate an understanding of the Wesleyan Quadrilateral: Scripture, tradition, reason, and experience. Students will demonstrate preparedness for graduate school or seminary.

Program Oversight

The philosophy major is overseen by the Department of Theology. Courses with BIB, CMI, GRE, HEB, PHI, REL, and THE numbers are administered by this department. Questions about the major should be directed to the department chair.

Physics-Mathematics (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
CPS 201 and CPS 202	Coding I and Coding II	4 and 4
^*π PHY 211	Modern University Physics I (see General Education below)	-
* PHY 212	Modern University Physics II	4
^*π MAT 201	Calculus I (see General Education below)	-
* MAT 202	Calculus II	4
* MAT 302	Vector Calculus	3
* MAT 311	Differential Equations	3
Choose at least 8 credit hours f		
* PHY 311	Electromagnetism	4
* PHY 321	Intermediate Mechanics	4
* PHY 349	Electronics	4
* PHY 350	Intermediate Laboratory	3
PHY 351	Heat and Thermodynamics	4
* PHY 372	Atomic and Nuclear Physics	4
Choose at least 6 credit hours f		
* MAT 232	Proof and Discrete Structures	3
* MAT 321	Abstract Algebra I	3
* MAT 351	Statistics	3
* MAT 352	Linear Algebra	3
* MAT 360	Mathematical Modeling	2
* MAT 363	Theory of Probability I	3
* MAT 364	Theory of Probability II	3
Total Credit Hours Requir	36	
General Education		
Community of Learners C	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
* BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
		3 and 3
Liberal Arts Skills Courses		
^* ENG 104 ^*# ENG 304	College Writing	3
LING 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co		
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π MAT 201	Calculus I (Mathematics Pathway)	4
Music	See General Education Section for approved courses	2
Philosophy ^*π PHY 211	See General Education Section for approved courses Modern University Physics L (Science Pathway)	3
Social Science	Modern University Physics I (Science Pathway) See General Education Section for approved courses	4 3
		_
General Education Credit Hours		52
Electives		32
B.A. in Physics-Mathematics Total Credit Hours		120

PHYSICS-MATHEMATICS

Symbol Key

- [^] Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible waiver by exam.
- ^π A major course that meets General Education requirements.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Physics-Mathematics Learning Objectives

Students will articulate the roles physics and mathematics principles play in shaping the world. Students will recognize when to apply physics and mathematics solutions to problems. Students will apply appropriate scientific research skills. Students will evaluate the effectiveness of the application of physics and mathematics solutions to problem-solving. Students will communicate understanding of physics and mathematics from a Christian perspective. Students will be prepared for technical careers in a variety of fields and to enter graduate schools for medicine, dentistry, veterinary medicine, pharmacy, law, and engineering.

Reverse Transfer Dual Degree

Students wishing to transfer to a research university for a technical engineering degree may also earn the B.A. in Physics-Mathematics from SAU in a reverse transfer of credits. Students must complete all SAU general education requirements, required support and major courses of the physics-mathematics major, electives, and the following courses to total approximately 90 credit hours.

- CHE 111 General Chemistry I and CHE 112 General Chemistry II
- ECN 221 Microeconomics or ECN 222 Macroeconomics
- At least one Physics Elective Course listed in the physics-mathematics major

Students should expect to spend approximately three years completing courses before transferring to an engineering school. Students should expect an engineering degree to be completed in approximately two years from the time of the transfer.

Once students complete an engineering degree at another institution, transcripts noting the conferral of the engineering degree conferral should be sent to the SAU registrar's office. Credit hours will be transferred from the engineering school transcript to complete the 120 credit hours required for the B.A. in Physics-Mathematics degree. Students must meet all other SAU graduation requirements for the B.A. degree to be conferred, with the exception of earning the last 20 of 30 credit hours at SAU.

SAU cannot guarantee admission to an outside engineering institution. Students should explore the engineering school's admission and curriculum requirements to understand how to craft their academic plan and goals at SAU.

Program Oversight

The physics-mathematics major is overseen by the School of Engineering. Courses with CPS, EGR, and MAT numbers are administered by this school. Questions about the major should be directed to the school dean.

Political Science (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
^π ECN 221	Introduction to Microeconomics (see General Education below)	-
POL 213	American National Government	3
POL 230	Contemporary World Affairs	3
POL 311	Comparative Government	3
POL 312	International Relations	3
POL 313 or POL 368	America in the 60s or Diplomatic History	3
POL 334 or POL 335	The Middle East or East Asia	3
$^{\pi}$ POL 351 or MAT 351	Statistics (see General Education below)	-
* POL 352	Research Design	3
POL 385	Practicum	6
POL 412 or POL 484	Constitutional Law or Spirituality, Faith, and Justice	3
Political Science Major	Credit Hours	30
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cours	es	
^{^*} ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways C	ourses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
$^{\pi}$ POL 351 or MAT 351	Statistics (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
^π ECN 221	Introduction to Microeconomics (Social Science Pathway)	3
General Education Credit Hours		51
Electives		38
R A in Political Science Total Credit Hours		120

POLITICAL SCIENCE

Symbol Key

- [^] Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ^π A major course that meets General Education requirements.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Political Science Learning Outcomes

Students in the political science major will articulate basic theories and practices of the political world. Students will apply political concepts to political action. Students will evaluate political forces in the global environment. Students will be prepared to enter careers in government, international relations, business, or law or to embark in graduate studies.

Upper-level Course Requirements

Depending on which courses students choose in the major, they may not acquire 36 upper-level credit hours (numbered 300-499) in their major coursework. However, students are required to complete 36 credit hours of upper-level courses in order to graduate. Students in the political economy major should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Complementary Study

A background in the other fields such as geography, history, or sociology, and/or a study of French, German, and/or Spanish are strongly recommended as complementary to the political economy major.

Study Abroad

Political economy majors are encouraged to consider a semester off campus at one of the many programs described in the off-campus section of the catalog. Many of the semester abroad programs will benefit the political economy major academic goals and may fulfill the CCS requirement.

Program Oversight

The political economy major is overseen by the Department of History, Geography and Politics. Courses with the HIS, GEO, POL, and SST numbers are administered by this department. Questions about the major should be directed to the department chair.

Professional Writing (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
*π ART 204	Photography (see General Education below)	-
COM 100	Introduction to Communication	3
COM 110	Communication Technology	3
^*π COM 212	Rhetoric (see General Education below)	-
COM 214	Communication Theory	2
COM 312	Design Tools: InDesign	1
COM 317	Digital Influence (may repeat once)	1
COM 324	Web Content and Management	3
COM 354	Applied Social Media	3
COM 385	Practicum (may take up to 4 credit hours)	1
* COM 399	Communication Portfolio	1
* COM 415	Design Thinking	3
* COM 480	Senior Seminar	1
WRT 216	Writing for the Media	3
WRT 310	Multimedia Reporting	3
WRT 316	Copy Editing	3
* WRT 373 or VID 314	Feature Writing or Script Writing	3
Professional Writing N	Лаjor Credit Hours	34
General Education		
Community of Learner	rs Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Course	es	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cour	rses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^*π COM 212	Rhetoric	3
Liberal Arts Pathways	Courses	
*π ART 205	Foundations of Photography (Fine Arts Pathway)	3
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cre	edit Hours	53
Electives		33
B.A. in Professiona	al Writing Total Credit Hours	120

PROFESSIONAL WRITING

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible waiver by exam.
- ^π A major course that meets General Education requirements.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Professional Writing Learning Outcomes

Students will write and edit in multiple professional contexts including print, web, and social media. This broad-based program includes traditional journalism, writing and editing scripts, marketing copy, and writing for the web and news and feature articles. Students will be equipped with a hands-on approach for rapidly changing professional opportunities that rely on storytelling and information gathering techniques.

Technology Requirements

All students in the Department of Communication and Media are encouraged to enter the program with a current MacBook Air or MacBook Pro and maintain a subscription to the Adobe Creative Cloud software package.

COM 212 Rhetoric Requirement for Transfer Students

Students who transfer to SAU or who transfer from a different major at SAU to the professional writing major and have previously taken a public speaking course may fulfill the COM 212 Rhetoric requirement with the public speaking course and by taking the 1 credit hour COM 232 Readings in Rhetoric course.

Program Progress Check

Student progress will be assessed by the department at the freshman and sophomore levels (first year for transfer students). Students must have a cumulative 2.5 GPA and pass the progress check to continue in the program.

Study Abroad

Students may substitute coursework from the Oxford program or the American Studies Washington D.C. Strategic Communication program offered by the Coalition of Christian Colleges and Universities (CCCU). Admission to the program requires a separate application process. Information can be found at www.cccuglobaled.org. Students should consult their academic advisor before proceeding with the application process to determine which requirements can be satisfied with the study abroad experience.

Complementary Programs

Students in the professional writing major are encouraged, but not required, to select a complementary minor and/or endorsements that will enhance their preparation for future careers.

Extracurricular Opportunities

Students may have opportunities to create content for student media including the SAU Pulse, HOME.fm, and The Arbor, and to write audio and video scripts for clients and short films. There may be opportunities to write promotional copy for department and campus events and professional clients.

Program Oversight

The professional writing major is overseen by the Department of Communication. Courses with APR, COM, SPE, and WRT numbers are administered by this department. Questions about the major should be directed to the department chair.

Psychology (B.A.)

Course Number	Course Title	Credit Hours
Major Foundation Cours	es	
* PSY 100	Introduction to Psychology (see General Education below)	-
* PSY 103	Psychology Seminar I	1
* PSY 203	Psychology Seminar II	1
* PSY 303	Psychology Seminar III	1
* PSY 342	Application of Behavioral Principles	2
*π PSY 351	Statistics for Behavioral Sciences (see General Education below)	_
* PSY 352	Research Design	3
PSY 385	Psychology Practicum	3
* PSY 498	Capstone in Psychology	2
	concentration from the following.	
General Psychology Concer		
* PSY 305	Abnormal Psychology	3
* PSY 321	Cognitive Psychology	2
* PSY 403	Neuropsychology	4
* PSY 422	Counseling Psychology	3
* PSY elective	PSY elective course/s	2
Choose one course from the		
* PSY 300	Infant and Early Childhood Development	3
* PSY 306	Middle Childhood and Adolescent Development	3
* PSY 309	Lifespan Development	3
Working with Vulnerable C	Children Concentration Courses	
* PSY 242	Death, Grief, and Loss	3
* PSY 300	Infant and Early Childhood Development	3
* PSY 306	Middle Childhood and Adolescent Development	3
* PSY 361	Play Therapy	3
* PSY 362	Understanding Trauma and Developing Resiliency	2
* PSY 363	A Systems Approach to Helping Families	3
Psychology Major Credit	Hours	30
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
* BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Course	es	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
[^] Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	ourses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
*π PSY 351	Statistics for Behavioral Sciences (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3

PSYCHOLOGY		
Science with lab	See General Education Section for approved courses or PSY 403	4
*π PSY 100	Introduction to Psychology (Social Science Pathway)	3
Total General Education	on Credit Hours	51
Electives		39
Total B.A. in Psych	ology Credit Hours	120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ^π A major course that meets General Education requirements.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Psychology Learning Outcomes

Students in the psychology major will demonstrate an understanding of the methods and applications of the discipline of psychology within a Christian worldview. Students will employ experimental and clinical methods for studying people; articulate theoretical concepts and research findings of the field; explain the historical background and philosophical assumptions underlying the methods and theories of modern psychology and how they apply to Christian belief and experience; and apply psychological knowledge to address significant human need. The major will prepare students for graduate study and/or entry-level careers in helping professions such as crisis intervention and counseling centers, community and social work agencies, evaluation and intervention in psychiatric clinic/hospital settings, substance abuse programs, law enforcement, ministry, and services/programs for senior citizens and special needs children or adolescents.

Graduate School Preparation

Students planning to attend graduate school for studies in counseling or clinical psychology are advised that success in PSY 385 will enhance chances for acceptance into a quality program.

Rationale for Major Courses

- In PSY 100, students will receive a broad overview of the sub-disciplines in the field.
- PSY 103, 203, and 303 will provide students with some of the requisite skills that will help prepare them for graduate training or a career in the field of psychology.
- PSY 351 and PSY 352 help students develop competence in the basic quantitative methods of inquiry used in the social sciences.
- Developmental courses help students build a basic knowledge of the major paradigms for understanding human development and the philosophical assumptions, strengths, and limitations of each.
- Experimental physiological courses allow students to receive exposure to basic methods, logic, findings, and theories in several of the traditional "hard science" sub-disciplines of psychology.
- From the course in the clinical/counseling area, students learn skills in how to relate more effectively to a diverse group of people.
- By taking either a psychology practicum or doing a research project, students will receive supervised experience in direct application of psychological knowledge.
- Through PSY 498, students will be able to demonstrate competencies in the field of psychology.

Psychology Major Oversight

The psychology major is overseen by the Department of Psychology. Courses with the PSY number are administered by this department. Questions about the major should be directed to the department chair.

Social Studies (B.A.)

Course Number	Course Title	Credit Hours
Major Courses	. la coma im a marina a modificación in a lista de la laco	
	hours in a primary discipline listed below.	20
Communication (COM) Economics (ECN)		20
Geography (GEO)		20
History (HIS)		20
Politics (POL)		20
Psychology (PSY)		20
Sociology (SOC)		20
=	nours in a second discipline listed above (may not repeat disciplines).	8
•	nours in a second discipline listed above (may not repeat disciplines).	8
•		
Social Studies Major Cre	edit Hours	36
General Education Community of Learners	Coro Coursos	
* COR 100	Life in Community	2
+ COR 200	Christ, Culture, and Diversity	2
+ COR 374	Preparing for Cross Cultural Studies	1
+ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		_
⁺ BIB 217	Old Testament Survey	3
+ BIB 218	New Testament Survey	3
Liberal Arts Skills Course	2 S	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways C	ourses	
NOTE: some courses used i	n the major may also count for General Education	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
Total General Education	51	
Electives	33	
Total B.A. in Social Studies Credit Hours		120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible waiver by exam.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

SOCIAL STUDIES

Social Studies Learning Outcomes

Students in the social studies major will examine the complexity of humans as individuals and as part of the social order. Students will articulate an understanding of the roots of society's multidimensional problems and solutions.

Upper-level Course Requirements

Students are required to complete 36 credit hours of upper-level courses in order to graduate. Students in the social studies major should include upper-level coursework in their major and elective choices to ensure they will meet graduation requirements. At least 9 credit hours of upper-level work is required in the 20 credit hours of the primary discipline.

Study Abroad

Students in the social studies major are encouraged to consider a semester off campus at one of the many programs described in the Cross Cultural Studies (CCS) section of the catalog. Many of the semester abroad programs will benefit the history major or minor's academic goals and may fulfill the CCS requirement as well as some General Education course requirements.

Program Oversight

The social studies major is overseen by the Department of History, Geography, and Politics. Courses with the HIS, GEO, POL, and SST numbers are administered by this department. Questions about the major should be directed to the department chair.

Social Studies Secondary Education-Comprehensive (B.A.)

Course Number	Course Title	Credit Hours
Major Subject Area Cou		or cure riours
^ ECN 221	Introduction to Microeconomics	3
^* ECN 222	Introduction to Macroeconomics	3
^ GEO 221	Introduction to Geography	3
^ HIS 331 or HIS 335	China, India, Japan or History of East Asia	3
^{^π} HIS 121	History of Civilization I (see General Education below)	-
HIS 122	History of Civilization II	3
^ HIS 141	United States to 1877	3
^ HIS 142	United States since 1877	3
^ HIS 361	Michigan History	3
^ HIS 480	Philosophy of History	3
^ POL 213	American National Government	3
^ POL 311	Comparative Government	3
^ POL Elective	Any POL course not already used	3
^ SST 300	Teaching Social Studies Standards	3
Choose one course from th	ne following	
^ HIS 307 or HIS 308	Colonial America 1492-1760 or The American Revolution	3
^ HIS 309	Civil War and Reconstruction	3
^ HIS 310	20 th Century America	3
^ HIS 313	America in the 1960s	3
^ HIS 340	Women in American History	3
^ HIS 368	Diplomatic History	3
Choose one course from th	ne following	
^ HIS 302 or HIS 303	19 th Century Europe or 20 th Century Europe	3
^ HIS 306	The Makings of Modern Europe	4
^ HIS 403	History of Biblical Interpretation and Criticism	3
Choose one course from th	ne following	
^ HIS 304	Geography and History of Russia and the Former Soviet Union	3
^ HIS 331	China, India, Japan	3
^ HIS 332	Africa	3
^ HIS 333	Latin America	3
^ HIS 334	The Middle East	3
Social Studies Maior Su	bject Area Credit Hours	48-49
•	Professional Program	
§ EDU 140	Exploring Critical Skills for the Professional Educator & Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
§* EDU 336	Teaching at the Secondary Level	2
§* EDU 344	Teaching History and Social Studies at the Secondary Level	2
^* EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^{‡*} EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
	rofessional Program Credit Hours	33
General Education	•	
Community of Learners	Core Courses	
* COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
+ COR 374	Preparing for Cross Cultural Studies	1
30 T 37 T	Treparing for cross cultural statics	±

See General Education Section for approved courses See General Education Section for approved courses Educational Psychology (Social Science Pathway) t Hours	3 4 3 51
See General Education Section for approved courses See General Education Section for approved courses	3 4
See General Education Section for approved courses	3
···	
See General Education Section for approved courses	2
· ·	3
See General Education Section for approved courses	3
History of Civilization I (History Pathway)	3
See General Education Section for approved courses	2
purses	
See General Education Section for approved courses	2
Personal Fitness and Wellness	2
Writing and Research	3
College Writing	3
s	
New Testament Survey	3
Old Testament Survey	3
Christian Life and Vocation	2
Christian Faith and Community	2
Cross Cultural Studies	3
	Christian Faith and Community Christian Life and Vocation Old Testament Survey New Testament Survey S College Writing Writing and Research Personal Fitness and Wellness See General Education Section for approved courses Purses See General Education I (History Pathway) See General Education Section for approved courses

Social Studies Secondary Education-Group (B.A.)

Course Number	Course Title	Credit Hours
Major Subject Area Cour	rses	
Other major courses listed in (General Education below with this notation $^\pi$.	
^ ECN 221	Introduction to Microeconomics	3
^* ECN 222	Introduction to Macroeconomics	3
^ GEO 221	Introduction to Geography	3
^ HIS 331 or HIS 335	China, India, Japan or History of East Asia	3
^{^π} HIS 121	History of Civilization I (see General Education below)	-
HIS 122	History of Civilization II	3
^ HIS 141	United States to 1877	3
^ HIS 142	United States Since 1877	3
^ HIS 361	Michigan History	3
^ POL 213	American National Government	3
^ POL 311	Comparative Government	3
^ SST 300	Teaching Social Studies Standards	3
Social Studies Major Sub	oject Area Credit Hours	33
Secondary Education	Professional Program	
§ EDU 140	Exploring Critical Skills for the Professional Educator & Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
§* EDU 336	Teaching at the Secondary Level	2
§* EDU 344	Teaching History and Social Studies at the Secondary Level	2
^* EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^{‡*} EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
Secondary Education Pro	33	

General Education

Community of Learne	rs core courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Course	es	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cou	rses	
§* ENG 104	College Writing	3
§*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ SPE 100	Oral Communication	2
Liberal Arts Pathways	Courses	
Art	See General Education Section for approved courses	2
^{^π} HIS 121	History of Civilization I (History Pathway)	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
*π EDU 230	Educational Psychology (Social Science Pathway)	3
General Education Cre	edit Hours	51
Choose a certifying mino	r (see Teacher Education for more information)	20
R A in Social Studi	ies Secondary Education-Group Total Credit Hours	137

Symbol Key

- [‡] Grade of "B" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- [#] Possible waiver by exam.
- △ Required support course that meets General Education requirements.
- $^{\pi}$ A major course that meets General Education requirements.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Social Studies Learning Outcomes

Students in the social studies secondary education majors will examine the complexity of humans as individuals and as part of the social order. Students will articulate an understanding of the roots of society's multidimensional problems and solutions. Students will be prepared to teach social studies in Michigan secondary schools.

Model Legislative Participation

Students in the social studies secondary education majors are highly encouraged to participate in model U.N. or model Arab League to gain additional, valuable experience in an extracurricular activity common to many secondary education institutions.

SOCIAL STUDIES SECONDARY EDUCATION

Teacher Certification

Students in this program should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC).

Program Oversight

The social studies secondary education majors are overseen by the Department of History, Geography, and Politics. Courses with the HIS, GEO, POL, and SST numbers are administered by this department. Questions about the major should be directed to the department chair. The education portion of these programs are overseen by the School of Education. For additional teacher education policies and requirements, please refer to the Teacher Education section of this catalog.

Social Work (B.S.W.)

The social work program is delivered on our main campus in semester-long format and in synchronous and asynchronous online modular, accelerated formats. General Education requirements vary depending on the student's chosen delivery format.

Course Number	Course Title	Credit Hours
Major Courses	II was Bishar Commuter to BIO as made Commuted active help.	
T Human Biology Course	Human Biology Course (see BIO course in General Education below)	-
POL 213 or POL 214 *π PSY 100	American National Government or State and Local Government	3
SOC 101	Introduction to Psychology (see General Education below) Introduction to Sociology	3
50C 101 €* SWK 281	Introduction to Social Work	3
^* SWK 305	Human Behavior in the Social Environment	3
^* SWK 311	Racial and Ethnic Relations	3
^* SWK 335	Interviewing	3
^* SWK 340	Practice with Individuals and Families	3
*^π SWK/PSY 351	Statistics for Behavioral Sciences (see General Education below)	-
^* SWK 352	Research Design	3
^* SWK 442	Social Welfare Policies	3
^* SWK 446	Practice with Groups	3
^* SWK 447	Practice with Communities and Organizations	3
^* SWK 450	Internship	10
^* SWK 480	Internship Seminar	2
Choose one course from the f	followina	
ECN 101	Introduction to Economics	3
ECN 101 or ECN 221	Introduction to Economics or Introduction to Microeconomics	3
* ECN 222	Introduction to Macroeconomics	3
Social Work Major Credi	t Hours	48
General Education for	Main Campus	
Community of Learners (Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
+ BIB 217	Old Testament Survey	3
+ BIB 218	New Testament Survey	3
Liberal Arts Skills Course		
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	purses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
*^π SWK/PSY 351	Statistics for Behavioral Sciences (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
*π BIO 100	Principals of Biology (or PSY 403 with permission) (Science Pathway)	4
*π PSY 100	Introduction to Psychology (Social Science Pathway)	3
General Education Credit	t Hours for Main Campus	51
Electives for Main Campus		21

General Education for the SAU Global Programs (Site, Video Conference, and Online) Community of Learners Core Courses

+	COR 110	Christ and the University Experience	3
+	COR 320	Christian Life and Thought	3
	COR 310	Christian Faith and Scripture	3
	COR 410	Christian Perspectives on Culture and Diversity	3
+	Cross Cultural course	A non-western history/geography course (½ cross cultural requirement)	3
	Cross Cultural course	A course in diversity (met with SOC 311) (½ cross cultural requirement)	-

Liberal Arts Skills Courses

^ ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
^# SPE 212	Fundamentals of Speech	3

Liberal Arts Pathways Courses

Art or Music	See SAU Global General Education Section for approved courses	Minimum 2
Humanities	See SAU Global General Education Section for approved courses	Minimum 2
π [^] SWK/PSY 351	Statistics for Behavioral Sciences (Mathematics Pathway)	3
^π BIO 101	Principles of Human Biology (Science Pathway)	3
*π PSY 100	Introduction to Psychology (Social Science 1)	3
^π SOC 101	Introduction to Sociology (Social Science 2) (See Major Courses)	-
*π ECN 222	Introduction to Macroeconomics (Social Science 3) (See Major Courses)	-
General Education Credit Hours for SAU Global		
Possible Electives for SAU Global		
B.S.W. Total Credit Hours (all delivery methods)		120

Symbol Key

- ^ Grade of "C" or better required.
- € Grade of "C+" or better required.
- * This course may have a prerequisite. See course description.
- * Possible waiver.
- ^π A major course that meets General Education requirements.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

Social Work Learning Outcomes

Students will use a planned problem-solving process to help individuals improve relationships and resolve problems. Students will assess the interaction between individuals and their environments for intervention strategies. Students will demonstrate competency of social work skills through an internship experience. Students will analyze social work theory. Students will explore how Christian beliefs can be integrated with the knowledge, skills, and values of the profession. Students will be prepared for generalist social work and/or entry into graduate programs for social work.

Social Work Mission

The social work program is dedicated to helping students build on and integrate their liberal arts foundation with the knowledge and skills of the social work profession and to apply social work and Christian values to ethical social work practice. We are also dedicated to preparing competent generalist social workers who are sensitive to and appreciative of diversity, commitment to social and economic justice, and prepared to empower individuals, families, groups, organizations, and communities.

Social Work Goals

- · To prepare students for generalist social work practice with professional knowledge, values, and skills
- To provide students with a sound foundation for graduate social work education

Acceptance into the Social Work Program

Application to the program is required before junior-level practice courses are taken after the successful completion of SWK 281. Freshmen, sophomores and transfer students can declare their intent to major in social work and will be assigned to a social work advisor who will help them prepare for acceptance. Transfer students who have completed the equivalent of SWK 281 at another accredited program may provisionally take one semester of junior-level courses while they apply to and are accepted into the program. Social work faculty determine admission based on the adequate completion of all requirements. To be accepted into the major, students must meet the following criteria:

- Cumulative college GPA of 2.5 or better. Conditional acceptance may be granted for students having a GPA lower than 2.5, which then requires a minimum of "B" in SWK 281 Introduction to Social Work.
- Successful completion of a college writing course with a grade of "C" or better.
- Successful completion of SWK 281 Introduction to Social Work with a grade of "C+" or better.
- Timely submission of application materials for admission to the social program.
- A personal interview with social work faculty.

Minimum GPA Requirement

A student who receives a grade below a "C" in any major course indicated with a ^ in the program listing above must repeat the course even if the cumulative GPA in the major is 2.5 or above. The exception to this is SWK 281, which is the introductory course for entrance into the social work program and requires a "C+" or above. For more information about special grading policies of the program, please refer to the social work program guide available from the social work department.

Course Sequencing

Because the curriculum has been developed to build on previous learning, deviations from this sequence will be allowed only in extreme circumstances and require approval from the academic advisor.

Life-learning Credit

No life-learning credit will be granted for social work major courses.

Internship Information

An internship is required for this program. Convicted felons may be limited to the type of location or client population in which their internships may be conducted. Qualified students are permitted to participate in internships away from campus and abroad. See the social work handbook for more information.

Licensure

To use the title of social worker in Michigan, a person must be licensed by the state. Information about licensure can be found in the social work handbook.

Child Welfare Endorsement

The child welfare endorsement is recognized by the Department of Health and Human Services of the state of Michigan. Students should consult with their advisor about policies and procedures for obtaining this endorsement. See the Institutional and Other Endorsements section of this catalog for curriculum.

Accreditation

The social work program at Spring Arbor University is accredited by the Council on Social Work Education.

Social Work Major Oversight

The social work major is overseen by the Department of Social Work. Courses with the SWK number are administered by this department. Questions about the major should be directed to the director of the BSW program. Students may refer to the departmental handbook for more information.



Sociology (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		0.0
^π PSY 100	Introduction to Psychology (see General Education below)	_
SOC 100	Modern Social Problems	3
SOC 101	Introduction to Sociology	3
SOC 311	Racial and Ethnic Relations	3
SOC 327	Social Stratification	3
^π SOC 351	Statistics for Behavioral Sciences (see General Education below)	-
* SOC 352	Research Design	3
* SOC 354	Social Psychology	3
SOC 360	Gender and Society	3
* SOC 452	Sociological Theory	3
* SOC 480	Senior Seminar	1
SOC 484	Spirituality, Faith, and Justice	3
Sociology Major Credit Hou	rs	28
General Education		
Community of Learners (Core Courses	
+ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374 and COR 375	Preparing for Cross Cultural Studies and Cross Cultural Studies	1 and 3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
* BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Course		
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co		
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^π SOC 351	Statistics for Behavioral Sciences (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
π PSY 100	Intro. to Psychology (Social Science Pathway)	3
General Education Credit		51
Electives	40	
B.A. in Sociology Tota	al Credit Hours	120
		=

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\mbox{\tiny π}}$ A major course that meets General Education requirements.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

SOCIOLOGY

Sociology Learning Outcomes

Students in the sociology program will demonstrate understanding of social order, social conflict, and social change. Students will analyze social constructs and develop intervention skills applicable to families and small groups as well as complex organizations and communities. Students will demonstrate capabilities of critical reflection and analysis rooted in Christian values in preparation to participate in the contemporary world. Students will be prepared for careers in organizational development, social work, teaching, business, communications, pre-law, or Christian ministry.

Upper-level Course Requirements

Depending on which courses students choose in the sociology major, they may not acquire 36 upper-level credit hours (numbered 300-499) in their major coursework. However, students are required to complete 36 credit hours of upper-level courses in order to graduate. Students in the sociology major should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Complementary Semester Programs

Students are encouraged to consider the CCCU's semesters in Washington D.C. or Costa Rica, or a semester experience through the Chicago Semester.

Program Oversight

The sociology major is overseen by the Department of Sociology. Courses with CRJ and SOC numbers are administered by this department. Questions about the major should be directed to the department chair.

Spanish (B.A.)

Course Number	Course Title	Credit Hours
Prerequisite Courses	(these courses count as electives)	
SPA 101	Elementary Spanish I	3
* SPA 102	Elementary Spanish II	3
* SPA 201	Intermediate Spanish I	3
* SPA 202	Intermediate Spanish II	3
Major Courses		
^{€*} SPA 306	Introduction to Spanish Literature and Civilization	3
* SPA 300-499	Upper-level Spanish courses to 27 credit hours	27
Spanish Major Credit	Hours	30
General Education		
Community of Learne	rs Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Cours	es	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cou	rses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways	Courses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cro	· ·	51
Electives (including prer	equisite Spanish courses)	39
R A in Spanish Total Cradit Hours		120

Symbol Key

- € Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Spanish Learning Outcomes

Students in the Spanish major will demonstrate the ability to comprehend and interpret the literature, civilization and culture of the country or countries in which the language is spoken. Students will identify issues related to the multiculturalism and diversity of the population within various contexts. Students will present language acquisition skills.

Prerequisite Spanish Courses

When developing a graduation plan, students should keep in mind that the requirements for SPA 100 and 200 level courses must be fulfilled prior to SPA 306 Introduction to Spanish Literature and Civilization. Students may register for the courses at SAU or meet the requirements through one of the following alternative ways: CLEP or AP exams, or four years of high school language courses with a grade of "B" or better. Students who must meet the prerequisites by taking the SPA 101, 102, 201, and 202 courses will struggle to meet major requirements within four years due to the course rotation schedule. Students should meet with the World Languages Department Chair for solutions. These courses do not count toward the major.

Residency Requirement

Students must take at least 50% of the required 300-499 Spanish courses on the SAU campus or through SAU online courses.

Immersion Experience

Spanish majors are encouraged to register for up to 15 credit hours of upper-level Spanish courses (300-499) with a Department of World Languages approved semester abroad program. Students must complete SPA 306 Introduction to Spanish Literature and Civilization with a grade of "B-" or better prior to registration for a semester abroad experience.

Registration Recommendation

It is recommended that students register for all 300-level or above Spanish courses offered at SAU each semester in order to complete the Spanish major in a timely manner.

Upper-level Course Requirements

Depending on which courses students choose in the Spanish major, they may not acquire 36 upper-level credit hours (numbered 300-499) in their major coursework. However, students are required to complete 36 credit hours of upper-level courses in order to graduate. Students should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Program Oversight

The Spanish major is overseen by the Department of World Languages. Courses with ARA, CHI, FRE, GER, and SPA numbers and the language courses offered through approved study abroad programs are administered by this department. Questions about the major should be directed to the department chair.

Spanish Elementary Education (B.A.)

Co	unaa Numban	Course Title	Credit Hours	
	ourse Number	Course Title	Credit nours	
Pre	•	rse courses count as electives)	2	
*	SPA 101	Elementary Spanish II	3	
*	SPA 201	Elementary Spanish II	3	
*	SPA 201 SPA 202	Intermediate Spanish I	3	
		Intermediate Spanish II	3	
	ajor Subject Area Cours			
§*	SPA 306	Introduction to Spanish Literature and Civilization	3	
۸*	SPA 300-499	Upper-level Spanish courses to 27 credit hours	27	
Sp	anish Major Subject Ar	ea Credit Hours	30	
	ofessional Program			
§	EDU 140/140L	Exploring Critical Skills for the Professional Educator and Lab	3	
§*	EDU 202	Issues and Trends in American Education	2	
^*	EDU 230	Educational Psychology (see General Education below)	-	
^*	EDU 271	The Diverse Learner	4	
§*	EDU 321	Teaching Reading and Language Arts in the Primary Grades	3	
§*	EDU 322	Teaching Reading and Language Arts in the Intermediate Grades	3	
§*	EDU 346E	Teaching World Languages (Elementary)	2	
^*	EDU 360	Integrating Technology in Education	2	
§	EDU 366	Multiple Modes of Representation in Elementary Mathematics	4	
^*	EDU 376	Children's Literature	3	
^*	EDU 424	Elementary and Middle School Reading Problems	3	
‡*	EDU 429	Effective Classroom Management, Assessment, and Instruction	3	
§*	EDU 433	Applied Core Teaching Practices Across the Curriculum (PK-6)	4	
§*	EDU 430E	Seminar in Teaching	3	
۸*	EDU 450E	Directed Teaching-Elementary	9	
§*	MAT 331	Foundations of School Math II	3	
Pro	ofessional Program Cre	edit Hours	51	
	General Education			
Co	mmunity of Learners C	Core Courses		
+	COR 100	Life in Community	2	
+	COR 200	Christ, Culture, and Diversity	2	
+	COR 374	Preparing for Cross Cultural Studies	1	
+	COR 375	Cross Cultural Studies	3	
	COR 300	Christian Faith and Community	2	
	COR 400	Christian Life and Vocation	2	
Bik	olical Studies Courses			
+	BIB 217	Old Testament Survey	3	
+	BIB 218	New Testament Survey	3	
Lib	eral Arts Skills Courses	5		
§*	ENG 104	College Writing	3	
§*#	ENG 304	Writing and Research	3	
٨	HPR 201	Teaching Elementary Health/PE	2	
^	SPE 100	Oral Communication	3	
Lib	eral Arts Pathways Co	urses		
^	ART 152	Art Foundations (Fine Arts Pathway)	2	
§π	SST 200	Human Society: Learning in the Social Studies (History Pathway)	3	
^*	ENG 112	World Literature (Literature Pathway)	3	
^*π	MAT 330	Foundations of School Math I (Mathematics Pathway)	3	
^	MUS 152	Music Foundations (Fine Arts Pathway)	2	
	Philosophy	See General Education Section for approved courses	3	
§π	NSC 200	Elementary Science Survey-Science by Inquiry (Science Pathway)	4	
		Consider Andrew University 2022 2022 He described Academic Catalog		

SPANISH ELEMENTARY EDUCATION

^{^π} EDU 230	Educational Psychology (Social Science Pathway)	3
General Educ	ation Credit Hours	51
B.A. in Spani	sh Elementary Education Total Credit Hours	132

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- # Possible waiver by exam.
- $^{\pi}$ A professional program course that meets General Education requirements.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Spanish Elementary Education Learning Outcomes

Students in the Spanish elementary education major will demonstrate the ability to comprehend and interpret the literature, civilization, and culture of Spanish-speaking countries. Students will identify issues related to the multiculturalism and diversity of the Spanish-speaking peoples. Spanish students will be prepared to teach Spanish in secondary schools in Michigan by preparing for the Michigan Test for Teacher Certification (MTTC) and the ACTFL Oral Proficiency Interview (OPI).

Prerequisite Spanish Courses

SPA 100- and 200- level courses must be fulfilled prior to SPA 306 Introduction to Spanish Literature and Civilization. Students may register for the courses at SAU or meet the requirements through one of the following alternative ways: CLEP or AP exams, or four years of high school language courses with a grade of "B" or better. Students who must meet the prerequisites by taking the SPA 101, 102, 201, and 202 courses will struggle to meet major requirements within four years due to the course rotation schedule. Students should meet with the World Languages Department Chair for solutions. These courses do not count toward the major.

Speech General Education Requirement Option

Students who successfully complete the interpersonal and presentation portions of EDU 140L upon the recommendation of the School of Education faculty will fulfill the speech requirement for General Education. No credit hours will be earned for fulfillment of this requirement through EDU 140L.

Residency Requirement

Students must take at least 50% of the required 300-499 Spanish courses on the SAU campus or through SAU online courses.

Immersion Experience

Spanish elementary education majors are encouraged to register for up to 15 credit hours of upper-level Spanish courses (300-499) with a Department of World Languages approved semester abroad program. Students must complete SPA 306 Introduction to Spanish Literature and Civilization with a grade of "B-" or better prior to registration for a semester abroad experience.

Registration Recommendation

It is recommended that students register for all 300-level or above Spanish courses offered at SAU each semester in order to complete the Spanish major in a timely manner.

K-12 Certification Endorsement

Students wishing to be eligible for K-12 certification may do so by taking EDU 346 (Secondary) in addition to EDU 346E (Elementary) and the required reading course.

Oral Proficiency Interview for Teacher Certification

Students desiring Michigan certification are responsible for meeting all certification requirements of the Michigan Department of Education (MDE) whether or not they are explicitly stated in this catalog. The MDE requires all world language endorsement candidates to pass the ACTFL Oral Proficiency Interview (OPI). For more information about the OPI, students should contact the chair of the Department of World Languages.

Teacher Certification

Students in this program should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC).

Program Oversight

The Spanish elementary education major is overseen by the Department of World Languages. Courses with ARA, CHI, FRE, GER, and SPA numbers, and the language courses offered through approved study abroad programs are administered by this department. Questions about the major should be directed to the department chair.

The education portion of this degree program is overseen by the School of Education. For additional teacher education policies and requirements, please refer to the Teacher Preparation Program section of this catalog.

Spanish Secondary Education (B.A.)

-		
Course Number	Course Title	Credit Hours
	ese courses count as electives)	
SPA 101	Elementary Spanish I	3
* SPA 102	Elementary Spanish II	3
* SPA 201	Intermediate Spanish I	3
* SPA 202	Intermediate Spanish II	3
Major Subject Area Cou		
§* SPA 306	Introduction to Spanish Literature and Civilization	3
^* SPA 300-499	Upper-level Spanish courses to 27 credit hours	27
Spanish Major Subject A	Area Credit Hours	30
Secondary Education	Professional Program	
§ EDU 140	Exploring Critical Skills for the Professional Educator & Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 271	The Diverse Learner	4
§* EDU 336	Teaching at the Secondary Level (or minor methods course)	2
§* EDU 346	Teaching World Languages (Secondary)	2
^* EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^{‡*} EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	9
Secondary Education Pro	ofessional Program Credit Hours	33
General Education		
Community of Learners	Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
⁺ BIB 217	Old Testament Survey	3
+ BIB 218	New Testament Survey	3
Liberal Arts Skills Course		
§* ENG 104	College Writing	3
§*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ SPE 100	Oral Communication	2
	ourcos	
Liberal Arts Pathways Co		2
Art History	See General Education Section for approved courses See General Education Section for approved courses	3
Literature	See General Education Section for approved courses See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
*π EDU 230	Educational Psychology (Social Science Pathway)	3
General Education Credi		51
	see Teacher Education for more information)	20
B.A. in Spanish Second	dary Education Total Credit Hours	134

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- ^T A major course or professional program course that meets General Education requirements.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Spanish Secondary Education Learning Outcomes

Students in the Spanish major will demonstrate the ability to comprehend and interpret the literature, civilization, and culture of Spanish-speaking countries. Students will identify issues related to the multiculturalism and diversity of the Spanish-speaking peoples. Spanish students will be prepared to teach Spanish in secondary schools in Michigan by preparing for the Michigan Test for Teacher Certification (MTTC) and the ACTFL Oral Proficiency Interview (OPI).

Prerequisite Spanish Courses

When developing a graduation plan, students should keep in mind that the requirements for SPA 100 and 200 level courses must be fulfilled prior to SPA 306 Introduction to Spanish Literature and Civilization. Students may register for the courses at SAU or meet the requirements through one of the following alternative ways: CLEP or AP exams, or four years of high school language courses with a grade of "B" or better. Students who must meet the prerequisites by taking the SPA 101, 102, 201, and 202 courses will struggle to meet major requirements within four years due to the course rotation schedule. Students should meet with the World Languages Department Chair for solutions. These courses do not count toward the major.

Residency Requirement

Students must take at least 50% of the required 300-499 Spanish courses on the SAU campus or through SAU online courses.

Immersion Experience

Spanish secondary education majors are encouraged to register for up to 15 credit hours of upper-level Spanish courses (300-499) with a Department of World Languages approved semester abroad program. Students must complete SPA 306 Introduction to Spanish Literature and Civilization with a grade of "B-" or better prior to registration for a semester abroad experience.

Registration Recommendation

It is recommended that students register for all 300-level or above Spanish courses offered at SAU each semester in order to complete the Spanish major in a timely manner.

K-12 Certification Endorsement

Students wishing to be eligible for K-12 certification may do so by taking EDU 346E (Elementary) in addition to EDU 346 (Secondary).

Teacher Certification

Students in this program should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC).

Oral Proficiency Interview for Teacher Certification

Students desiring Michigan certification are responsible for meeting all certification requirements of the Michigan Department of Education (MDE) whether or not they are explicitly stated in this catalog. The

SPANISH SECONDARY EDUCATION

MDE requires all world language endorsement candidates to pass the ACTFL Oral Proficiency Interview (OPI) with a minimum level of Advanced Low. For more information about the OPI, students should contact the chair of the Department of World Languages.

Program Oversight

The Spanish secondary education major is overseen by the Department of World Languages. Courses with ARA, CHI, FRE, GER, and SPA numbers, and the language courses offered through approved study abroad programs are administered by this department. Questions about the major should be directed to the department chair.

The education portion of this degree program is overseen by the School of Education. For additional teacher education policies and requirements, please refer to the Teacher Education section of this catalog.

Special Education-Elementary: Learning Disabilities (B.A.)

Co	urse Number	Course Title	Credit Hours
Ma	ajor Courses		
^*	SED 200	Foundations in Special Education	3
^*	SED 209	Human Development for Exceptional Learners	3
^*	SED 300	Curriculum Design and Strategic Interventions	3
^*	SED 305	Classroom Management and Behavior Strategies	3
^*	SED 340	Laws and Policies for Special Education	3
^*	SED 360	Technology for Special Education	3
§*	SED 420	Elementary Special Education Methods	3
§*	SED 421	Secondary Special Education Methods	3
^	SED 423	Special Education Assessment	3
^*	SED 426	Professional Practice and Collaboration	3
^*	SED 430	Internship Seminar	1
^*	SED 450	Internship Site-Based Experience	6
Sp	ecial Education-Elemei	ntary: Learning Disabilities Major Credit Hours	37
-	anned Program	, ,	
		es are listed in General Education below with this notation π .	
^*	EDU 376	Children's Literature	3
§*	MAT 331	Foundations of School Math II	3
Dr	ofessional Program	Tourisdiction of School Water II	3
FI §	EDU 140/140L	Evaluring Critical Skills for the Drefessional Educator and Lab	2
§*	EDU 140/140L EDU 202	Exploring Critical Skills for the Professional Educator and Lab Issues and Trends in American Education	3 2
۸*	EDU 202 EDU 230	Educational Psychology (see General Education below)	2
§*			2
۸*	EDU 321	Teaching Reading and Language Arts in the Primary Grades	3
§*	EDU 273	Diversity Issues for Educators Tooching Reading and Language Arts in the Intermediate Crades	2 3
§*	EDU 322	Teaching Reading and Language Arts in the Intermediate Grades	
۸*	EDU 352 EDU 360	Teaching Social Studies Methods in K-8 Schools	2 2
§	EDU 366	Integrating Technology in Education Multiple Modes of Representation in Elementary Mathematics	4
۸*	EDU 376	Children's Literature	3
^*	EDU 424	Elementary and Middle School Reading Problems	3
‡*	EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§*	EDU 430E	Seminar in Teaching	3
§*	EDU 433	Applied Core Teaching Practices Across the Curriculum (PK-6)	4
^*	EDU 450E	Directed Teaching-Elementary	9
DI		I Program Credit Hours	52
		Trogram creat nours	32
	eneral Education	Name (Carrier	
Co	mmunity of Learners C		2
+	COR 100	Life in Community	2
+	COR 200	Christ, Culture, and Diversity	2
+	COR 374	Preparing for Cross Cultural Studies	1
	COR 375	Cross Cultural Studies	3
	COR 300	Christian Faith and Community	2
	COR 400	Christian Life and Vocation	2
	olical Studies Courses		
+	BIB 217	Old Testament Survey	3
+	BIB 218	New Testament Survey	3
Lik	eral Arts Skills Courses	3	
§*π	ENG 104	College Writing	3
§*#	ENG 304	Writing and Research	3
π	HPR 101	Personal Fitness and Wellness	2
۸	Speech	See General Education Section for approved courses	2

SPECIAL EDUCATION

Lib	eral Arts Pathways Co	ourses	
^π	ART 152	Art Foundations (Fine Arts Pathway)	2
^π	MUS 152	Music Foundations (Fine Arts Pathway)	2
§π	SST 200	Human Society: Learning in the Social Studies (History Pathway)	3
^*π	ENG 112	World Literature (Literature Pathway)	3
^*π	MAT 330	Foundations of School Math I (Mathematics Pathway)	3
	Philosophy	See General Education Section for approved courses	3
§π	NSC 200	Elementary Science Survey-Science by Inquiry (Science Pathway)	4
*π	EDU 230	Educational Psychology (Social Science Pathway)	3
Ge	neral Education Credi	t Hours	51
B.A. in Special EdElementary: Learning Disabilities Total Credit Hours		140	

See Special Education Secondary for more information.

Special Education-Secondary: Learning Disabilities (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
^* SED 200	Foundations in Special Education	3
^* SED 209	Human Development for Exceptional Learners	3
^* SED 300	Curriculum Design and Strategic Interventions	3
^* SED 305	Classroom Management and Behavior Strategies	3
^* SED 340	Laws and Policies for Special Education	3
^* SED 360	Technology for Special Education	3
§* SED 420	Elementary Special Education Methods	3
§* SED 421	Secondary Special Education Methods	3
^ SED 423	Special Education Assessment	3
^* SED 426	Professional Practice and Collaboration	3
^* SED 430S	Seminar in Teaching Special Education: Learning Disabilities	1
^* SED 450S	Mentored Experience in Teaching Special Education: LD	6
Special Education-Secon	dary: Learning Disabilities Major Credit Hours	37
Secondary Education I	Professional Program	
§ EDU 140/140L	Exploring Critical Skills for the Professional Educator and Lab	3
§* EDU 202	Issues and Trends in American Education	2
^* EDU 230	Educational Psychology (see General Education below)	-
^* EDU 273	Diversity Issues for Educators	2
§* EDU 336 or EDU XXX	Teaching at the Secondary Level (or minor methods course)	2
^* EDU 360	Integrating Technology in Education	2
^* EDU 425	Reading Development in Middle and Secondary Content Areas	3
^{‡*} EDU 429	Effective Classroom Management, Assessment, and Instruction	3
§* EDU 430S	Seminar in Teaching: Secondary	3
^* EDU 450S	Directed Teaching: Secondary	3
Secondary Education Pro	ofessional Program Credit Hours	23
General Education		
Community of Learners (
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		

		SPECIAL EDUCATION
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Course	s	
§* ENG 104	College Writing	3
§*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	ourses	
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
*π EDU 230	Educational Psychology (Social Science Pathway)	3
General Education Credi	t Hours	51
Choose a certifying minor (see Teacher Education for more information)	20
B.A. in Special Educa	tion-Secondary: LD Total Credit Hours	131

Symbol Key

- [‡] Grade of "B" or better required.
- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible alternative course or exam option to fulfill this requirement.
- $^{\pi}$ A major course that meets General Education requirements.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

Special Education: LD Learning Outcomes

Candidates who major in special education with an endorsement in learning disabilities demonstrate a clear understanding of diagnostic and teaching methods to provide sound instruction and manage the instructional environment to best meet the needs of children with learning disabilities. Best practices in the field are presented from a liberal arts perspective and include an emphasis on integrating Christian faith into teaching practice. Courses address all domains of the Model for Effective Teaching, designed to prepare teachers with both a broad understanding, in-depth skills, and practical application for teaching.

K-12 Certification Eligibility

These majors prepare students to apply for K-12 teacher certification with an endorsement in K-12 special education for students with learning disabilities (SM). When completed concurrently with an elementary or secondary education program, candidates may teach in both the regular education classroom at their level of study and in K-12 special education programs in schools. Candidates must pass the Learning Disabilities MTTC to be recommended for certification. Students certifying in secondary education with the K-12 learning disabilities endorsement must pass the Learning Disabilities MTTC and the MTTC in their content area minor in order to be certified in both areas. Refer to the School of Education handbook for further certification information.

SPECIAL EDUCATION

Speech General Education Requirement Option

Students who successfully complete the interpersonal and presentation portions of EDU 140L upon the recommendation of the School of Education faculty will fulfill the speech requirement for General Education. No credit hours will be earned for fulfillment of this requirement through EDU 140L.

Non-teaching Option

Students interested in pursuing SED without teacher certification should consult with the School of Education.

Additional Internship Experience

SED 452 Internship Site-Based Experience II (credit varies) may be recommended by the University supervisor and mentor teacher. This internship provides additional opportunities in the special education classroom for candidates who need more experience in the development of classroom techniques. The number of credits will be determined individually based on the specific number of weeks required for placement, as articulated in the student teacher policy.

Internship Placement

Due to the number of internship weeks required for initial certification in special education: LD, spring internships must begin in early January for successful completion. Students should not plan an interim class prior to spring internships A fall placement with the aforementioned configuration will continue past the fall semester and into the spring semester.

Teacher Education Information

More information about the Teacher Education Program can be found in the Teacher Preparation Program section of this catalog.

Program Oversight

The special education majors are overseen by the School of Education. Courses with numbers ECE, EDU, RDG, SED, and TSL are administered by the School of Education. Questions about these majors should be directed to the program director.

Speech (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
COM 100	Introduction to Communication	3
COM 110	Communication Technology	3
^*π COM 212	Rhetoric (see General Education below)	-
COM 214	Communication Theory	2
COM 317	Digital Influence (may repeat once)	1
COM 324	Web Content and Management	3
* COM 404	Persuasion	3
COM 415	Design Thinking	3
* COM 480	Senior Seminar	1
* SPE 242	Story Telling	3
* SPE 265	Acting Techniques	3
* SPE 342	Oral Interpretation and Voice	3
* SPE 460	Recital	1
WRT 216	Writing for the Media	3
Choose from the courses be	low to total at least 3 credit hours.	
COM 301	Communication, Spirituality and Service	3
COM 317	Digital Influence	1
COM 354	Applied Social Media	3
* COM 368	Intercultural Communication	3
* COM 399	Communication Portfolio	1
* SPE 370	Special Topics	1-3
Speech Major Credit Hou	irs	35
General Education		
Community of Learners (Core Courses	
+ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses		
* BIB 217 and BIB 218	Old Testament Survey and New Testament Survey	3 and 3
Liberal Arts Skills Course		3 and 3
^* ENG 104	College Writing	2
^*# ENG 304	Writing and Research	3 3
HPR 101	Personal Fitness and Wellness	2
^*π COM 212	Rhetoric	3
		J
Liberal Arts Pathways Co		2
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Credit	. nours	52
Electives		33
B.A. in Speech Total	Credit Hours	120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets General Education requirements.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Speech Learning Outcomes

This program prepares students to be comfortable speaking to an audience and being persuasive. Starting with an understanding of rhetorical traditions, the speech program focuses on integrity and credibility, with audience-centered applications related to message design and presentation. Unique aspects of this program are a concern with spirituality and social justice. Students will culminate the program with a required senior recital. This major is also excellent preparation for graduate school.

Technology Requirements

All students in the Department of Communication and Media are encouraged to enter the program with a current MacBook Air or MacBook Pro and maintain a subscription to the Adobe Creative Cloud software.

COM 212 Rhetoric Requirement for Transfer Students

Students who transfer to SAU or who transfer from a different major at SAU to the speech major and have previously taken a public speaking course may fulfill the COM 212 Rhetoric requirement with the public speaking course and by taking the 1 credit hour COM 232 Readings in Rhetoric course.

Program Progress Check

Student progress is assessed at both the freshman and sophomore levels (first year for transfer students). Students must have a cumulative 2.5 GPA and pass the progress check to continue in the program.

Upper-level Course Requirements

The speech major is not designed to include the 36 upper-level credit hours required for graduation. Students in the speech major should include upper-level coursework in their electives.

Study Abroad

Students may substitute coursework from the Oxford program or the American Studies Washington D.C. Strategic Communication program offered by the Coalition of Christian Colleges and Universities (CCCU). Admission to the programs requires an application. Information can be found at www.cccuglobaled.org. Students should consult their academic advisor before applying to determine which requirements can be satisfied with the study abroad experience.

Complementary Programs

Students in the speech major are encouraged to select a complementary minor and/or endorsement.

Extracurricular Opportunities

Students will have opportunities to create content for student media including the SAU Pulse, HOME.fm and The Arbor. Available are opportunities to produce video and graphics for clients, chapel, and short films, and to promote department and campus events.

Program Oversight

The speech major is overseen by the Department of Communication. Courses with APR, COM, SPE, and WRT numbers are administered by this department. Questions about the major should be directed to the department chair.

Sports Management (B.S.)

Course Number	Course Title	Credit Hours
Major Courses		
^* ACC 221	Principles of Accounting	3
^ BUS 325	Principles of Management	3
^ HES 345	Principles of Exercise Prescription	2
^*π HES 351	Statistics (see General Education below)	-
^* HES 381	Nutrition and Energy Metabolism	3
^* HES 475	Physiology of Exercise Lab	2
^ HES 450	Internship	6
^* HES 480	Senior Seminar	1
^{^π} HPR 153	Found'ns of Physical Fitness, Health, and Wellness (see Gen. Ed. below)	-
^ HPR 163	Introduction to Sports Management	3
^ HPR 178	Aerobic Activities	2
^ HPR 179	Strength and Power Training	2
^* REC 335	Facilities, Planning & Operations for Health, Fitness, Rec., and Sports	3
^* REC 424	Liability and Risk Management in Recreation and Sport	3
Sports Management M		33
General Education	.,	
	a Coro Courses	
Community of Learners		2
CON 100	Life in Community	2
COR 200	Christ, Culture, and Diversity	2
CON 374	Preparing for Cross Cultural Studies	1
CON 373	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Courses	S	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cours	ses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
^{^π} HPR 153	Foundations of Physical Fitness, Health, and Wellness	3
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways (
Art	See General Education Section for approved courses	2
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
^*π HES 351	Statistics (Mathematics Pathway)	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
BIO 264 or BIO 281	Anatomy and Physiology I or Environmental Science (Science Pathway)	4
Social Science	See General Education Section for approved courses	3
General Education Cred		5 2
	ait Hours	
Electives		35
B.S. in Sports Mana	gement Total Credit Hours	120

SPORTS MANAGEMENT

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets General Education requirements.
- * Possible waiver with a specified number of transfer credits upon first-time admission.

Sports Management Learning Outcomes

Students majoring in sports management will demonstrate management skills related to sports and sports facilities. Students will articulate the connections between business and sports, fitness, and recreation.

Curriculum Design

The sports management program is an interdisciplinary program carefully designed to provide students with knowledge, skills, and abilities congruent with careers with organizations, which could include professional and semi-professional, interscholastic, intercollegiate, and recreational levels.

Complementary Programs

Students in the sports management program are encouraged to take a complementary minor or institutional endorsement in more focused areas of interest such as psychology, sociology, communications, business, marketing, or professional writing.

Upper-level Course Requirements

The sports management major is not designed to include the 36 upper-level credit hours required for graduation. Students in the sports management major should include upper-level coursework in their electives to ensure they will meet graduation requirements.

Program Oversight

The sports management major is overseen by the Department of Health and Human Performance. Courses with HES, HPR, and REC numbers are administered by this department. Questions about the major should be directed to the department chair.

Studio Art (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
^π ART 162	Drawing I (see General Education below)	-
^ ART 165	Two-Dimensional Design	3
^ ART 166	Three-Dimensional Design	4
^ ART 167	Color	2
^* ART 213	Painting I	3
^* ART 263	Drawing II	4
^ ART 314	Painting II (or petition to substitute with other upper-level ART course)	4
^ ART 320	History of Modern Art	3
^ ART 326	History of Art: Renaissance to 19th Century Western Art	3
^* ART 415	Advanced Practice (two semesters)	3 and 3
^* ART 470	Senior Seminar	1
^* ART 471	Senior Art Exhibition	3
Studio Art Major Cred	it Hours	36
General Education		
Community of Learner	rs Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Course	es	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cour	rses	
^* ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^ Speech	See General Education Section for approved courses	2
Liberal Arts Pathways Co	purses	
^{^π} ART 162	Drawing I (Art portion of Fine Arts Pathway)	3
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
Total General Education	on Credit Hours	52
Electives		32
B.A. in Studio Art Total Credit Hours		120

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\mbox{\tiny π}}$ A major course that meets a General Education requirement.
- [†] Possible waiver with a specified number of transfer credits upon first-time admission.

Studio Art Learning Outcomes

Students in the studio art major will develop a unique combination of technical skills relative to the various media with emphasis on personal creativity and style.

Minimum Grade Requirements

Students majoring in studio art must pass all major courses with a grade of "C" or better, including courses in the General Education that double-count with the major.

Art Transfer Students

A portfolio review and evaluation will be required for transfer credit of certain art courses.

Residency Requirements

The following courses must be completed at SAU and may not be transferred.

- ART 415 Advanced Practice
- · ART 470 Senior Seminar

Progress Check Points

From the freshman year to graduation, there are a series of courses and checkpoints to aid students in artistic development and to ensure that each student is fully prepared for a career. Students meet individually with departmental faculty during their sophomore and junior years to discuss career concerns and quality of artwork completed during the first two years.

Senior Seminar and Art Exhibition

Seniors take ART 470 Senior Seminar, prepare a paper on their philosophy, and present a senior art exhibit. Details concerning the exhibition requirement are available from the department. The exhibition must be presented within one semester of completing ART 470 Art Seminar. The department reserves the right to require additional advanced courses, i.e., ART 415 Advanced Practice, when deemed necessary.

Scholarships

Scholarships for studio art majors are available through portfolio review and are also awarded at annual semester competitions.

Program Oversight

The studio art major is overseen by the Department of Media and Visual Arts. Courses with ART, AUD, FAS, and VID numbers are administered by this department. Questions about the major should be directed to the department chair.

Video/Film Production (B.A.)

Course Number	Course Title	Credit Hours
Major Courses		
*π ART 205	Foundations of Photography (see General Education below)	-
COM 100	Introduction to Communication	3
COM 110	Communication Technology	3
^*π COM 212	Rhetoric (see General Education below)	-
* COM 324	Web Content and Management	3
COM 385	Practicum	1
* COM 399	Communication Portfolio	1
* COM 480	Senior Seminar	1
VID 202	Video Production	4
* VID 306	Advanced Video Production	4
VID 314 or WRT 216	Script Writing or WRT 216 Writing for the Media	3
* VID 372	Short Film Production	3
* VID 376	Editing	3
* VID 410	Producing and Directing	2
VID 324	Introduction to Film	3
Video/Film Production	Major Credit Hours	34
General Education		
Community of Learner	s Core Courses	
⁺ COR 100	Life in Community	2
⁺ COR 200	Christ, Culture, and Diversity	2
⁺ COR 374	Preparing for Cross Cultural Studies	1
⁺ COR 375	Cross Cultural Studies	3
COR 300	Christian Faith and Community	2
COR 400	Christian Life and Vocation	2
Biblical Studies Course	s	
⁺ BIB 217	Old Testament Survey	3
⁺ BIB 218	New Testament Survey	3
Liberal Arts Skills Cours	ses	
^{^*} ENG 104	College Writing	3
^*# ENG 304	Writing and Research	3
HPR 101	Personal Fitness and Wellness	2
^*π COM 212	Rhetoric	3
Liberal Arts Pathways		
*π ART 205	Foundations of Photography (Art portion of Fine Arts Pathway)	3
History	See General Education Section for approved courses	3
Literature	See General Education Section for approved courses	3
Mathematics	See General Education Section for approved courses	3
Music	See General Education Section for approved courses	2
Philosophy	See General Education Section for approved courses	3
Science with lab	See General Education Section for approved courses	4
Social Science	See General Education Section for approved courses	3
General Education Cre	dit Hours	53
Electives		33
RA in Video/Film	Production Total Credit Hours	120

VIDEO/FILM PRODUCTION

Symbol Key

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- * Possible waiver by exam.
- $^{\pi}$ A major course that meets a General Education requirement.
- △ Required support course that meets a General Education requirement.
- ⁺ Possible waiver with a specified number of transfer credits upon first-time admission.

Video/Film Production Learning Outcomes

This award-winning program prepares students for careers in radio, television, video production, and film. Students will write and produce work that commands attention and respect. The hands-on approach allows students to produce creative work from the very beginning of the program, practice teamwork and keep deadlines. Students will participate in courses and activities that promote the production and screening of short films, and feature both studio as well as field experience. Student will shoot, edit, and promote their creative work with a solid foundation in digital influence and storytelling. A unique aspect of this program is its focus on hands-on experience and an emphasis on ethics and creativity.

Technology Requirements

All students in the Department of Media and Visual Arts are encouraged to enter the program with a current MacBook Air or MacBook Pro and maintain a subscription to the Adobe Creative Cloud software package.

COM 212 Rhetoric Requirement for Transfer Students

Students who transfer to SAU or who transfer from a different major at SAU to the video/film production major and have previously taken a public speaking course may fulfill the COM 212 Rhetoric requirement with the public speaking course and by taking the 1 credit hour COM 232 Readings in Rhetoric course.

Program Progress Check

Student progress will be assessed by the department at both the freshman and sophomore levels (first year for transfer students). Students must have a cumulative 2.5 GPA and pass the progress check to continue in the program.

Extracurricular Opportunities

SAU Radio offers experience at both The Arbor, our student station, and Home.fm, our professional station. There are opportunities to write, shoot, edit, and appear in client, department, and chapel videos, as well as Will Shoot for Credit short films.

Study Abroad

Students may substitute coursework from the American Studies Washington D.C. semester offered by the Coalition of Christian Colleges and Universities (www.cccuglobaled.org) or other SAU approved semester programs. Admission to these programs require a separate application process. Consultation with the dean and Office of Registration and Records is required to determine how requirements of the program will be satisfied in a study abroad opportunity.

Program Oversight

The video/film production major is overseen by the Department of Media and Visual Arts. Courses with ART, AUD, FAS, and VID numbers are administered by this department. Questions about the major should be directed to the department chair.

MINOR PROGRAMS

Accounting

Arabic

Art

Biblical Studies

Biblical and Theological Studies

Biology

Biology Secondary Education

Business Administration

Chemistry

Chemistry Secondary Education

Communication Studies

Computer Science

Criminal Justice

Cybersecurity (Online)

English

English Secondary Education

English Writing Entrepreneurship

Finance

Freelance and Personal Branding

French (Suspended)

French Education (Suspended)

Graphic Design

History

History Secondary Education Integrated Science Education

International Business

Language Arts Education

Management

Marketing

Mathematics

Mathematics Elementary Education Mathematics Secondary Education

Music

Philosophy

Political Science

Political Science Secondary Education

Pre-law

Psychology: General

Psychology Secondary Education

Psychology: Trauma, Growth, and Resiliency

Reading Sociology

Spanish

Spanish Education

Teaching English as a Second Language

Technology Tools

Theological Studies

Accounting Minor

Gainey School of Business

Course Number	Course Title	Credit Hours
ACC 221	Principles of Accounting I	3
* ACC 222	Principles of Accounting II	3
* ACC 314	Cost and Managerial Accounting Theory	3
* ACC 317	Intermediate Accounting I	3
* ACC 318	Intermediate Accounting II	3
* ACC 341	Cost and Managerial Accounting Practice	3
* ACC 360	Accounting Information Systems	3
* ACC 391	Individual Taxation	3
Total Accounting 1	Minor Credit Hours	24

Arabic Minor

Department of World Languages

Course Number	Course Title	Credit Hours
Required Courses (Kels	ey Language Institute)	
ARA 155A	Elementary Arabic I	3
* ARA 155B	Elementary Arabic II	3
* ARA 255A	Intermediate Arabic I	3
* ARA 255B	Intermediate Arabic II	3
* ARA 300-499 (X4)	Advanced Arabic and Culture Courses	3 each = 12
Total Arabic Minor C	redit Hours	24
Highly Recommended Pro	erequisite Courses (SAU)	
HIS 334	The Middle East	3
REL 394	World Religions	3

Important Information about the Arabic Minor: SAU partners with Kelsey Language Institute in Amman, Jordan, to offer Arabic language and culture courses over two semesters. Courses are taught in a Christian context with a focus on an oral approach. Students will select courses in advanced Arabic grammar, phonetics, conversation and advanced Arabic culture, and will use emerging Arabic skills to build relationships with Indigenous peoples. Students must attend a CCS workshop at least a year in advance. COR 374 and 375 are met with this minor.

Art Minor

Department of Media and Visual Arts

Course Number	Course Title	Credit Hours
^ ART 162	Drawing I	3
^ ART 165	Two-Dimensional Design	3
^ ART 166	Three-Dimensional Design	3
^ ART 167	Color	2
*^ ART 263	Drawing II	4
^ ART XXX	ART electives	6
Art Minor Total Credit Hours		21

Biblical and Theological Studies Minor

Department of Theology

Course Number	Course Title	Credit Hours
BIB 220	Biblical Interpretation	3
BIB 300-499 (x2)	Bible course	3 each = 6
PHI/THE 300-499 (x3)	Philosophy or theology course	3 each = 9
Biblical and Theologic	cal Studies Minor Total Credit Hours	18

Biblical Studies Minor

Department of Theology

Course Number	Course Title	Credit Hours
BIB 220	Biblical Interpretation	3
BIB 300-499 (x5)	Bible course	3 each = 15
Biblical Studies Min	or Total Credit Hours	18

Biology Minor

Department of Biology

Course Number	Course Title	Credit Hours
BIO 111	Introductory Biology I	4
BIO 112	Introductory Biology II	4
* BIO 261	Human Anatomy	4
* BIO 305	Principles of Genetics	4
* BIO 362	Principles of Ecology	4
* CHE 101 or CHE 111	Introductory Chemistry or General Chemistry I	4
Biology Minor Total (Credit Hours	24

Biology Secondary Education Minor

Department of Biology and School of Education

Course Number	Course Title	Credit Hours
^{^π} BIO 111	Introductory Biology I	4
^ BIO 112	Introductory Biology II	4
*^ BIO 261	Human Anatomy	4
*^ BIO 305	Principles of Genetics	4
*^ BIO 362	Principles of Ecology	4
*^ CHE 101 or CHE 111	Introductory Chemistry or General Chemistry I	4
Biology Secondary Ed	ucation Minor Total Credit Hours	24

Secondary Professional Courses are required for certification (see Teacher Education section).

Business Administration Minor

Gainey School of Business

Course Number	Course Title	Credit Hours
ACC 221	Principles of Accounting I	3
* ACC 222	Principles of Accounting II	3
BUS 107	Foundations of Leadership and Ethics	3
^π ECN 221	Introduction to Microeconomics	3
* ECN 222	Introduction to Macroeconomics	3
MKT 221	Marketing Principles	3
BUS 325 or BUS	Principles of Mgmt. or Operations & Supply Chain Mgmt.	3
Business Administration Minor Total Credit Hours		21

Chemistry Minor

Department of Chemistry

Course Number	Course Title	Credit Hours
* CHE 111	General Chemistry I	4
* CHE 201	Organic Chemistry I	4
* CHE 202	Organic Chemistry II	4
* CHE 301	Analytical Chemistry	4
* CHE 440	Research in Biology and Chemistry	3
* CHE 411 or CHE 472	Physical Chemistry or Biological Chemistry I	4 or 5
Total Chemistry Minor	r Credit Hours	23-24

Chemistry Secondary Education Minor

Department of Chemistry and School of Education

Course Number	Course Title	Credit Hours
^* CHE 111	General Chemistry I	4
^* CHE 112	General Chemistry II	4
^* CHE 201	Organic Chemistry I	4
^* CHE 202	Organic Chemistry II	4
^* CHE 301	Analytical Chemistry	4
^* CHE 440	Research in Biology and Chemistry	3
Chemistry Secondar	y Education Minor Total Credit Hours	23

Secondary Professional Courses are required for certification (see Teacher Education section).

Christian Ministry Minor

Department of Theology

Course Number	Course Title	Credit Hours
CMI 127	Exploring Ministry	2
CMI 310	Communication in Ministry	3
CMI 316	Church Planting/Growth	3
CMI 361	Christian Spirituality and Formation	3
CMI 375	Supervised Ministry	1
CMI 375	Supervised Ministry	1
CMI 401	Biblical Theology of Mission	3
CMI 410	Foundations and Practices in Ministry	3
Christian Ministry N	Ainor Total Credit Hours	19

Computer Science Minor

School of Engineering

Course Number	Course Title	Credit Hours
CPS 201	Coding I	4
CPS 202	Coding II	4
* CPS 301	Data Structures and Algorithms	3
Choose 9 credit hours of CPS courses numbered 200 or above		9
Computer Science Minor Total Credit Hours		20

Criminal Justice Minor

Department of Sociology

Course Number	Course Title	Credit Hours
CRJ 201	Crime, Corrections and Criminal Justice	3
* CRJ 301	Criminological Theory	3
* CRJ 447	Criminal Justice Policy	3
* CRJ 449	Restorative Justice	3
PSY 253	Forensic Psychology	3
* SOC 484	Spirituality, Faith, and Justice	3
SOC 311	Racial and Ethnic Relations	3
Criminal Justice Mi	or Total Credit Hours	21

Cybersecurity Minor

School of Engineering

Course Number	Course Title	Credit Hours
CPS 310	Operating Systems	3
CPS 311	Data Communications and Networking	3
CPS 313	Computer Systems Security	3
CPS 361	Foundations of Linux for Cybersecurity	3
* CPS 362	Ethical Hacking Tools and Techniques	3
CPS 363	Security and Management Controls	3
* CPS 364	Cyber Threats, Analysis, and Response	3
CPS 366	Network Performance and Security	3
Cybersecurity Min	or Total Credit Hours	24

The cybersecurity program is delivered online in a modular, accelerated delivery format and on the main campus. See Cybersecurity major for information about industry credentials.

English Minor

Department of English

Course Number	Course Title	Credit Hours
* ENG 220	Introduction to Literary Study	3
* ENG 361	English Language	3
Choose five upper-level ENG courses to total 15 credit hours		15
English Minor Total Credit Hours		21

English Secondary Education Minor

See English Minor. All grades in the English minor must be "C" or better. Secondary Professional Courses are also required. (See Teacher Education section.)

English Writing Minor

Department of English

Course Number	Course Title	Credit Hours
* ENG 208	Creative Writing	3
* ENG 220	Introduction to Literary Study	3
* ENG 361	English Language	3
Choose one course from	the following	
ENG 322, 350, or 352	2 An American literature course	3
ENG 329, 360, or 362	2 A British literature course	3
ENG 315	Shakespeare	3
ENG 333	The Bible as Literature	3
Choose three courses from the following		
* ENG 309	Creative Nonfiction	3
* ENG 311	Poetry Writing	3
ENG 313	Fiction Writing	3
* ENG/VID 314	Scriptwriting	3
English Writing Minor Total Credit Hours		

Entrepreneurship Minor

Gainey School of Business

Course Number	Course Title	Credit Hours
ACC 221	Principles of Accounting I	3
BUS 107	Foundations of Leadership and Ethics	3
^π ECN 221	Introduction to Microeconomics	3
ENT 201	Small Business Management	3
ENT 311	Entrepreneurship and Planning	3
ENT 401	Social Entrepreneurship	3
MKT 221	Marketing Principles	3
MKT 275 or ART 272	Sales or Graphic Design	3 or 4
Entrepreneurship Minor Total Credit Hours		24-25

Finance Minor

Gainey School of Business

Course Number	Course Title	Credit Hours
ACC 221	Principles of Accounting I	3
* ACC 222	Principles of Accounting II	3
^π ECN 221	Introduction to Microeconomics	3
*π ECN 222	Introduction to Macroeconomics	3
* FIN 362	Principles of Finance	3
* FIN 368	Insurance and Risk Management	3
* FIN 418	Investments	3
* FIN 452 or FIN 480	Series 7 Preparation or Finance Capstone	3
Finance Minor Total Credit Hours		24

Financial Planning Minor

Gainey School of Business

Course Number	Course Title	Credit Hours
* ACC 391	Individual Taxation	3
FIN 200	Introduction to Financial Planning	3
FIN 202	Student Management Investments	1
FIN 301	Money and Banking	3
* FIN 362	Principles of Finance	3
* FIN 368	Insurance and Risk Management	3
* FIN 418 and FIN 420	Investments and Retirement Planning	3 and 3
* FIN 425	Estate Planning	3
FIN 480	Finance Capstone	3
Financial Planning Mi	inor Total Credit Hours	28

Prerequisite courses: ACC 221 and ACC 222 are prerequisite to ACC 391.

Freelance and Personal Branding Minor

Department of Communication

Course Number	Course Title	Credit Hours
COM 110 or ART 335	Communication Technology or Web Design	3
COM 317	Digital Influence	1
COM 324	Web Content and Management	3
COM 354	Applied Social Media	3
COM 415	Design Thinking	3
COM 416	Principles and Practices of Freelancing	3
ENT 311	Entrepreneurship and Planning for Success	3
Freelance and Persona	l Branding Minor Total Credit Hours	19

French Minor This program is closed to new enrollment until further notice.

Department of World Languages

Course Number	Course Title	Credit Hours
Prerequisite Courses (do	not count toward the minor)	
FRE 101	Elementary French I	3
* FRE 102	Elementary French II	3
* FRE 201	Intermediate French I	3
* FRE 202	Intermediate French II	3
Minor Courses		
§* FRE 306	Introduction to French Literature and Civilization	3
* FRE 322	Advanced French Conversation and Phonetics	3
* FRE 323	Contemporary French Culture	3
* FRE 300-499	French upper-level elective	3
* FRE 300-499	French upper-level elective	3
* FRE 300-499	French upper-level elective	3
French Minor Total Credit Hours		18

French Education Minor This program is closed to new enrollment until further notice.

Department of World Languages and School of Education

See French Minor. Below are additional requirements for the French education minor.

Course Number	Course Title	Credit Hours
^{^*} FRE 300-499 (x 2)	French electives (in addition to the French non-education minor)	3 each = 6
French Education Mi	inor Total Credit Hours	24

Elementary or Secondary Education Courses required for certification (see Teacher Education)

Prerequisite French Courses for French Minors: FRE 100- and 200-level courses are prerequisite to FRE 306 Introduction to French Literature and Civilization. Students may register for the courses at SAU (12 additional credit hours) or meet the requirements through CLEP or AP exams, or four years of high school language courses with a grade of "B" or better. Successful completion of FRE 306 with a grade of "B-" or better is prerequisite to 300-level or above French courses and study abroad.

Residency Requirement for French Minors: Students in one of the French language minors must take at least 50% of the 300-level or above French course requirements on the SAU campus or SAU online courses. It is recommended that students register for all 300-level or above French courses on campus each semester in addition to the course credit they will acquire in the immersion experience. Advanced French courses are offered at SAU typically on a three-year rotation.

Immersion Experience and Cross Cultural Requirement for French Minors: French minors are encouraged to register for up to 9 credit hours of upper-level French courses (300-499) with a Department of World Languages approved semester abroad program. French Education Minors are encouraged to register for up to 12 credit hours of upper-level French courses (330-499) with a Department of World Languages approved semester abroad program. Students must complete FRE 306 Introduction to French Literature and Civilization with a grade of "B-" or better prior to registration for a semester abroad experience.

Graphic Design Minor

Department of Media and Visual Arts

Course Number	Course Title	Credit Hours
ART 165	Two-Dimensional Design	3
ART 167	Color	2
ART 272	Introduction to Graphic Design	3
ART 274	Graphic Design I	3
* ART 333	Graphic Design II	4
ART 376	Typography	3
Graphic Design Minor Total Credit Hours		18

History Minor

Department of History, Geography and Politics

C	ourse Number	Course Title	Credit Hours
π	HIS 121 and HIS 122	History of Civilization I and History of Civilization II	3 and 3
π	HIS 141 and HIS 142	United Stated to 1877 and United Stated since 1877	3 and 3
	HIS XXX (x4)	Four History electives	3 each = 12
History Minor Total Credit Hours		24	

History Secondary Education Minor

Department of History, Geography and Politics and School of Education

See History Minor. One history elective course is replaced by HIS 361 Michigan History (3). Secondary Professional Courses are also required. All grades in history secondary education minor must be "C" or better.

Support Courses for History Certification Test Preparation

GEO 221	Introduction to Geography	3
POL 213	American National Government	3
Choose one course fi	rom the following	
^π ECN 101	Introduction to Economics	3
*π ECN 222	Introduction to Macroeconomics	3

Intercultural Communication Minor

Department of Communication

Course Number	Course Title	Credit Hours
COM 100	Introduction to Communication	3
* COM 214	Communication Theory	2
* COM 368	Intercultural Communication	3
* Non-English Language	Non-English Language	6
SOC 311	Racial and Ethnic Relations	3
Choose two courses from th	e following	
GEO 331	China, India and Japan	3
GEO 332	Africa	3
GEO 334	The Middle East	3
HIS 303	Twentieth Century Europe	3
Intercultural Commun	ication Minor Total Credit Hours	23

International Business Minor

Gainey School of Business

Course Number	Course Title	Credit Hours
^π ECN 221	Introduction to Microeconomics	3
^{π*} ECN 222	Introduction to Macroeconomics	3
IBS 223	Biblical Foundations of International Business	3
IBS 305	Principles of International Business	3
MKT 221	Marketing Principles	3
* Language 2XX or elective	Any non-English language or GSB elective	3
Choose two courses from COM 368, POL 312, POL 322, SOC 311		3 and 3
International Business Minor Total Credit Hours		24

Prerequisite and Language Courses for the International Business Minor: The 100-level language course prerequisites to 200-level may increase course requirements by 3 credit hours. Students may register for the prerequisite and language courses at SAU or satisfy the 100-level and 200-level requirements through one of the following alternative ways: credit by CLEP or AP exam, or waiver with four years of high school language courses with a grade of "B" or better.

Management Minor

Gainey School of Business

Course Number	Course Title	Credit Hours
BUS 107	Foundations of Leadership and Ethics	3
BUS 325	Principles of Management	3
BUS 371	Organizational Behavior Management	3
BUS 432	Principles of Human Resources	3
Choose four courses from th	ne following (two must be numbered 300 and above).	
* ACC 341	Cost and Managerial Accounting Practice	3
BUS 271	Business Law I	3
* BUS 351	Statistics	3
* BUS 426	Operations and Supply Chain Management	3
ENT 201	Small Business Management	3
FIN 268 or FIN 200	Personal Finance or Introduction to Financial Planning	3
IBS 223	Biblical Foundation of International Business	3
IBS 305	Principles of International Business	3
Management Minor To	otal Credit Hours	24

Prerequisites: Students who choose to take ACC 341 Cost and Managerial Accounting Practice will need to take the prerequisites ACC 221 Principles of Accounting I and ACC Principles of Accounting II.

Marketing Minor

Gainey School of Business

Course Number	Course Title	Credit Hours
MKT 207 or MKT 347	Advertising or Public Relations	3
BUS 107	Foundations of Leadership and Ethics	3
COM 110	Communication Technology	3
*π BUS 351	Statistics	3
MKT 221	Marketing Principles	3
MKT 275	Sales	3
MKT 340 or MKT 341	Consumer Relations or Retailing	3
*MKT 452 or MKT 461	Marketing Research and Design or Marketing Strategy	3
Marketing Minor Total	Credit Hours	24

Mathematics Minor

Department of Mathematics

Course Prefix	Course Title	Credit Hours
* MAT 201 and MAT 202	Calculus I and Calculus II	4 and 4
* MAT 232	Proof and Discrete Structures	3
* MAT 321	Abstract Algebra I	3
* MAT 300-499	MAT elective (excluding MAT 300, 331 and 342)	3
* MAT 300-499	MAT elective (excluding MAT 300, 331 and 342)	3
Mathematics Minor Total Credit Hours		20

Mathematics Secondary Education Minor

See Mathematics Minor. Grades must be "C" or better. Secondary Professional Courses are also required. (See Teacher Education section.) MAT 342 and one other upper-level (300-499) MAT course must be taken at SAU.

Music Minor

Department of Music

Course Number	Course Title	Credit Hours
MUS 105	Music Theory I: Literacy	3
* MUS 106	Music Theory II: Harmony	3
^π MUS 230/240	Instrumental or Vocal Ensemble (2 or 4 semesters)	1 or 2 each
MUS 310	Applied Lessons (2 or 4 semesters)	1 or 2 each
* MUS 363	Conducting	2
MUS Electives		5
Choose one of the following	ng.	
MUS 313	The History of Music Literature to 1750	3
MUS 314	The History of Music Literature from 1750	3
Music Minor Total Credit Hours		24

Organ or Piano Focus: Requires two semesters of ensemble and six semesters of applied lessons.

Applied Lessons Credit Hours: Applied lessons meet 30 minutes each week for 1 credit hour or 60 minutes for 2 credit hours per semester. All applied lessons require significant individual practice outside of the meeting time as well as attendance of all music labs and performance in at least two music labs a semester.

Philosophy Minor

Department of Theology

Course Number	Course Title	Credit Hours
^π PHI 200	Introduction to Philosophy	3
* PHI 301	Great Thinkers of the Western World	3
* PHI 300-499	Philosophy upper-level elective	3
* PHI 300-499	Philosophy upper-level elective	3
* PHI 300-499	Philosophy upper-level elective	3
* THE 300-499	Theology upper-level elective	3
* THE 300-499	Theology upper-level elective	3
Philosophy Minor T	otal Credit Hours	21

Political Science Minor

Department of History, Geography and Politics

Course Number	Course Title	Credit Hours
POL 213	American National Government	3
POL 236	Christianity and Politics	3
POL 311	Comparative Government	3
POL 316	Western Political Thought	3
POL XXX	POL electives	8
Political Science Minor Total Credit Hours		20

Political Science Secondary Education Minor

See Political Science Minor above. All grades in the political science minor must be "C" or better. Secondary Professional Courses are also required. (See Teacher Education section.)

Support Courses for Political Science Certification Test Preparation

	GEO 221	Introduction to Geography	3
π	HIS 141 or HIS 142	United States to 1877 or United States from 1877	3
π	ECN 101 or *ECN 222	Introduction to Economics or Introduction to Macroeconomics	3

3

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Pre-law Minor

Department of Theology

Course Number	Course Title	Credit Hours
BUS 271	Business Law I	3
* COM 404	Oral and Digital Persuasion	3
* PHI 301	Great Thinkers of the Western World	3
* PHI 334	Critical Thinking	3
POL 213	American National Government	3
SOC 382	International Human Rights	3
HIS/PHI/SOC 390	Independent Study in History, Philosophy or Sociology	3
Pre-law Minor Total Credit Hours		21

Psychology: General Minor

Department of Psychology

Course Number	Course Title	Credit Hours
*π PSY 100	Introduction to Psychology	3
* PSY Elective (x2)		3 each = 6
Choose one option from ea	ch of the following groups.	
Experimental		
* PSY 403	Neuropsychology	4
* PSY 321 and PSY 342	Cognitive Psychology and Application of Behavioral Principals	2 and 2
Developmental		
* PSY 300	Infant and Early Childhood Development	3
* PSY 306	Middle Childhood and Adolescent Development	3
* PSY 309	Lifespan Development	3
Clinical		

Abnormal Psychology or Counseling Psychology

Psychology: Secondary Education Minor

Psychology: General Minor Total Credit Hours

Department of Psychology and School of Education

PSY 305 or PSY 422

Course Number	Course Title	Credit Hours
*π PSY 100	Introduction to Psychology	3
* PSY 321	Cognitive Psychology	2
* PSY 342	Application of Behavioral Principals	2
* PSY 403	Neuropsychology	4
* PSY 305 or PSY 422	Abnormal Psychology or Counseling Psychology	3
* PSY elective	Psychology elective	3
Choose one option from th	e following	
* PSY 300	Infant and Early Childhood Development	3
* PSY 306	Middle Childhood and Adolescent Development	3
* PSY 309	Lifespan Development	3
Psychology Secondar	y Education Minor Total Credit Hours	20

Secondary Professional Courses are required for certification (see Teacher Education section).

Psychology: Trauma, Growth, and Resiliency Minor

Department of Psychology

Course Number Course Title		Credit Hours	
*π PSY 100	Introduction to Psychology	3	
PSY 242	Death, Grief and Loss	3	
* PSY 301	Positive Psychology	3	
* PSY 305	Abnormal Psychology	3	
	, 5,	3	

MINORS PSY 362 Understanding Trauma and Developing Resiliency 2 **PSY 422** Counseling Psychology 3 Choose one course from the following. Infant and Early Childhood Development **PSY 300** 3 **PSY 306** Middle Childhood and Adolescent Development 3 Psychology: Trauma, Growth, and Resiliency Minor Total Credit Hours 20

Reading Minor

School of Education

Course Number	Course Title	Credit Hours
§* EDU 321	Teaching Reading and Language Arts in the Primary Grades	3
§* EDU 322	Teaching Reading and Language Arts in the Intermediate Grades	3
^*♦ EDU 360	Integrating Technology in Education	2
^*♦ EDU 376	Children's Literature	3
^{^*} RDG 340	Emergent and Beginning Literacy	3
^{^*} RDG 356	Culturally Responsive Pedagogy	3
^{^*} RDG 361	Information Literacy	1
^{^*} RDG 377	Young Adult Literature	3
^*♦ RDG 424	Elementary and Middle School Reading Problems	3
^{^*} RDG 426	Reading Interventions and Remediation	3
^{^*} RDG 428	Teaching Writing for K-8 Teachers	3
^{^*} RDG 439	Issues and Trends in Literacy Education	3
Reading Minor Total	Credit Hours	33

Education Courses (See Teacher Preparation Program section of the catalog.)

Professional Disposition and Skills for Elementary Education: Acceptable ratings in the Professional Dispositions and Skills instrument as evaluated by the SOE faculty may be considered as part of the criteria for recommendation for the internship in elementary education.

Sociology Minor

Department of Sociology

Course Number	Course Title	Credit Hours
SOC 100	Modern Social Problems	3
^π SOC 101	Introduction to Sociology	3
SOC 311	Racial and Ethnic Relations	3
SOC 327	Social Stratification	3
SOC 360	Gender and Society	3
* SOC 452	Sociological Theory	3
SOC 484	Spirituality, Faith, and Justice	3
Sociology Minor Total Credit Hours		21

Spanish Minor

Department of World Languages

Course Number	Course Title	Credit Hours
§* SPA 306	Introduction to Spanish Literature and Civilization	3
* SPA 355G	Advanced Conversation	3
* SPA 300-499 (x 4)	Upper-level Spanish course	3 each = 12
Spanish Minor Total Credit Hours		18

Spanish Education Minor

Department of World Languages and School of Education

See Spanish Minor. Below are additional requirements for the Spanish education minor.

Course Number	Course Title	Credit Hours
^{^*} SPA 300-499 (x 2)	Spanish electives (in addition to the Spanish non-education minor)	3 each = 6
Spanish Education M	linor Total Credit Hours	24

Elementary or Secondary Education Courses required for certification (see Teacher Education)

Prerequisite Spanish Courses for Spanish Minors: SPA 100- and 200-level courses are prerequisite to SPA 306. Students may satisfy these prerequisite requirements by taking the courses at SAU, through CLEP or AP exams, or by waiver with four years of the same language in high school with a grade of "B" or better.

Residency Requirement and Registration Recommendation for Spanish Minors: Students must take 50% of the required 300-499 Spanish courses through SAU. It is recommended that students register for all 300-level Spanish courses offered at SAU each semester to complete the minor in a timely manner.

Immersion Experience: Spanish minors are encouraged to register for up to 9 credit hours of upper-level Spanish courses (300-499) and Spanish Education Minors are encouraged to register for up to 12 credit hours of upper-level Spanish courses (330-499) with a Department of World Languages approved semester abroad program. Students must complete SPA 306 Introduction to Spanish Literature and Civilization with a grade of "B-" or better prior to registration for a semester abroad experience.

Teacher Certification for Spanish Education Minor: Students in this program should be aware of the schedule for the Michigan Test for Teacher Certification (MTTC).

Oral Proficiency Interview for Teacher Certification in Spanish: Students desiring Michigan certification are responsible for meeting all certification requirements of the Michigan Department of Education (MDE) whether or not they are explicitly stated in this catalog. The MDE requires all world language endorsement candidates to pass the Oral Proficiency Interview (OPI). For more information about the OPI, students should contact the chair of the Department of World Languages.

Teaching English as a Second Language Minor

School of Education

Course Number	Course Title	Credit Hours
^ TSL 311	Cross Cultural Communication	4
^ TSL 321	Essential Linguistics for Teachers of English Language Learners	2
§* TSL 326	Methods and Materials for Teachers of English Language Learners	4
§* TSL 327	Teaching Grammar for English Language Learners	2
^* TSL 411	Sheltered Immersion (SIOP) for Content Area Teachers	4
^* TSL 420	Assessment and Eval. of English Language Learners and Programs	3
§* TSL 421	Methods for Teaching Literacy for English Language Learners	4
^{^*} TSL 430E or 430S	Seminar in Teaching English Language Learners	1
^ Foreign Language	2 semesters non-English language (See note above)	6
TSL Minor Total Cred	lit Hours	24-30

Education courses are required for certification (See Teacher Education.)

TSL Learning Outcomes: Prepares candidates to teach English as a Second Language to children and adults of all ages in school or community settings. Candidates develop professional skills to effectively teach English listening, speaking, reading and writing, to groups of children or adults with multiple levels of English language proficiency and diverse backgrounds.

High School Language: Language may be fulfilled by petition with two years of high school foreign language with a "B" or better. **English Language Proficiency:** English language proficiency will be determined by an interview and writing assessment in EDU 140.

Certification Eligibility: May be added as an additional endorsement to an existing teaching certificate. Students with a Spanish major and TSL minor seeking secondary certification must student teach in both a Spanish and an ESL setting. The TSL minor meets certification requirements for elementary, secondary or K-12 endorsements. Candidates must successfully complete all courses in the elementary or secondary teacher preparation program as well as all TSL courses and clinical experiences. Adding the TSL endorsement to the initial elementary certificate requires candidates pass the Michigan Test for Teacher Certification (MTTC) for elementary education as well as the ESL MTTC. Candidates in secondary education must pass the MTTC in their major and the ESL MTTC. Students seeking the K-12 TSL Endorsement must have a TSL minor and take both TSL 430E and TSL 430S. The TSL minor K-12 must be connected with a program of study of at least 30 semester hours in elementary education, language arts, social studies, science or mathematics for initial endorsement on an elementary or secondary certificate.

Technology Tools Minor

School of Engineering

Course Number	Course Title	Credit Hours
BUS 162	Business Computer Applications	1
CPS 150	Introduction to Computers	3
CPS 201	Coding I	4
CPS 202	Coding II	4
* CPS 203	Web Design and Development	3
* CPS 315	Web Service, API and Data Services	3
Technology Tools Min	nor Total Credit Hours	18

Theological Studies Minor

Department of Theology

Course Number	Course Title	Credit Hours
THE 206	Doctrines of the Christian Faith	3
* THE 300-499 (x 3)	Theology course	3 each = 9
* PHI 300-499 (x2)	Philosophy course	3 each = 6
Theological Studies Minor Total Credit Hours		18

Symbol Key for All Minors § Grade of "B-" or better required.

- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- $^{\mbox{\tiny π}}$ May fulfill a General Education requirement.
- ♦ Meets a Teacher Education requirement.

INSTITUTIONAL AND OTHER ENDORSEMENTS

Accounting

Advertising and Public Relations

Arabic

Audio Production

Biblical Languages

Business Administration

Child Welfare (MDHHS Recognized)

Communication

Computer Coding

Corporate Finance

Digital Influence

Economics

Entrepreneurship

Ethical Decision Making

Finance

Financial Planning

Fitness

Freelance and Personal Branding

Graphic Design

Information Systems

International Business

International Education Leadership

Management

Management Information Systems

Management of Health Care Systems

Marketing

Photography

Professional Writing

Speech

Teacher Education (MDE Recognized)

Teaching English as a Second Language

Trauma, Growth, and Resiliency

Urban Education Leadership

Video Production

Web Development

INSTITUTIONAL AND OTHER ENDORSEMENTS

Accounting Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
ACC 221	Principles of Accounting I	3
* ACC 222	Principles of Accounting II	3
* ACC 317	Intermediate Accounting I	3
* ACC 318	Intermediate Accounting II	3
Total Credit Hours		12

Advertising and Public Relations Institutional Endorsement

Department of Communication

Course Number	Course Title	Credit Hours
APR 311* or ENT 311	Corporate Comm. or Entrepreneurship Planning for Success	3
APR 347	Public Relations	3
COM 404* or BUS 403	Persuasion or Argument and Persuasion for Business	3
Choose one of the following		
APR 207	Advertising	3
* APR 309	Advertising Strategies	3
COM 301	Communication, Spirituality & Service	3
Total Credit Hours		12

Prerequisites: COM 214 Communication Theory, WRT 216 Writing for the Media.

Arabic Institutional Endorsement

Department of World Languages

Course Number	Course Title	Credit Hours
Required Courses (Kelse	ey Language Institute Semester Abroad)	
ARA 155A	Elementary Arabic I	3
* ARA 155B	Elementary Arabic II	3
* ARA 255A	Intermediate Arabic I	3
* ARA 255B	Intermediate Arabic II	3
Total Credit Hours		12
Highly Recommended P	rerequisite Courses (SAU)	
HIS 334	The Middle East	3
REL 394	World Religions	3

Audio Production Institutional Endorsement

Department of Media and Visual Arts

Course Number	Course Title	Credit Hours
AUD 174	Radio Production	3
AUD 321	Sound Design	3
AUD 302	Podcasting	1
Choose one of the follow	ing.	
MUS 212	Music Production I	2
VID 202	Video Production	4
VID 372	Short Film Production	3
Total Credit Hours		9-11

Biblical Languages Institutional Endorsement

Department of Theology

Course Number	Course Title	Credit Hours
GRE 331	Elementary New Testament Greek I	3
* GRE 332	Elementary New Testament Greek II	3
HEB 331	Elementary Biblical Hebrew I	3
* HEB 332	Elementary Biblical Hebrew II	3
Total Credit Hours		12

Business Administration Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
* ACC 221	Principles of Accounting I	3
BUS 107	Foundations of Leadership and Ethics	3
^π ECN 221	Introduction to Microeconomics	3
MKT 221	Marketing Principles	3
Total Credit Hours		12

Child Welfare Endorsement

Department of Social Work

Course Number	Course Title	Credit Hours
SWK 305	Human Behavior in the Social Environment	3
^ SWK 307	Child Welfare	3
SWK 340	Practice with Individuals and Families	3
SWK 341	Trauma Informed Child Welfare	3
SWK 450	Internship (child welfare organization)	10
Total Credit Hours		22

The child welfare endorsement is recognized by the Department of Health and Human Services of the state of Michigan. Students should consult with their advisor about policies and procedures for obtaining this endorsement.

Communication Institutional Endorsement

Department of Communication

Course Number	Course Title	Credit Hours
* COM 214	Communication Theory	2
COM 301 or COM 368	Comm., Spirituality, & Service or Intercultural Communication	3
* COM 404	Persuasion	3
COM 415	Design Thinking	3
Total Credit Hours		11

Computer Coding Institutional Endorsement

School of Engineering

Course Number	Course Title	Credit Hours
CPS 105	Introduction to Linux	1
CPS 201 and CPS 202	Coding I and Coding II	4 and 4
Total Credit Hours		9

Corporate Finance Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
* ACC 392	Organizational Taxation	3
* BUS 372	Business Law II	3
FIN 201	Financial Institutions	1

INSTITUTIONAL AND OTHER ENDORSEMENTS

FIN 202	Student Managed Investments (two semesters)	1 and 1
* APR 311	Corporate Communication	3
Total Credit Hours		12

Prerequisites: ACC 221, ACC 222, BUS 271, and ACC 391. Adds 12 credit hours for majors outside of the Gainey School of Business.

Digital Influence Institutional Endorsement

Department of Communication

Course Number	Course Title	Credit Hours
COM 110	Communication Technology	3
COM 317	Digital Influence (2 semesters)	1 and 1
COM 324	Web Content and Management	3
COM 354	Applied Social Media	3
COM 415	Design Thinking	3
Total Credit Hours		14

Economics Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
^π ECN 221	Introduction to Microeconomics	3
π* ECN 222	Introduction to Macroeconomics	3
* ECN 301	Money and Banking	3
ECN 322/POL 322	Globalization: International Economics in the Information Age	3
Total Credit Hours		12

Entrepreneurship Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
ENT 201	Small Business Management	3
ENT 311	Entrepreneurship and Planning	3 and 3
ENT 401	Social Entrepreneurship	3
MKT 221	Marketing Principles	3
Total Credit Hours		12

Ethical Decision Making Institutional Endorsement

Department of Theology

Course Number	Course Title	Credit Hours
PHI 314	Ethics	3
PHI 318	War and Peace	3 and 3
* PHI 334	Critical Thinking	3
* PHI 402	Environmental Ethics	3
Total Credit Hours		12

Finance Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
* ACC 221	Principles of Accounting I	3
ECN 221	Introduction to Microeconomics	3
FIN 268 or FIN 200	Personal Finance or Introduction to Financial Planning	3
* FIN 362	Principles of Finance	3
Total Credit Hours		12

Financial Planning Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
ACC 221	Principles of Accounting I	3
FIN 200	Introduction to Financial Planning	3
* FIN 420	Retirement Planning	3
* FIN 425	Estate Planning	3
Total Credit Hours		12

Prerequisite Course: FIN 362 Principles of Finance (3 credit hours)

Fitness Institutional Endorsement

Course Number	Course Title	Credit Hours
Major Courses		
^{^π} HPR 153	Foundations of Physical Fitness, Health, and Wellness	3
^ HPR 178	Aerobic Activities	2
^ HPR 179	Strength and Power Training	2
* HES 345	Exercise Prescription	2
Choose one of the following	ng.	
HES 321	Scientific Principles of Strength and Conditioning	3
HES 381	Nutrition and Energy Metabolism	3
* HES 475	Physiology of Exercise Lab	2
Total Credit Hours		11-12

Prerequisite: BIO 264 Anatomy and Physiology I is prerequisite to HES 475.

Freelance and Personal Branding Institutional Endorsement

Department of Communication

Course Number	Course Title	Credit Hours
COM 354 and COM 415	Applied Social Media and Design Thinking	3 and 3
COM 416	Principles and Practices of Freelancing	3
ENT 311	Entrepreneurship and Planning for Success	3
Total Credit Hours		12

It is strongly recommended that students take COM 110 Communication Technology to support the learning in this endorsement.

Graphic Design Institutional Endorsement

Department of Media and Visual Arts

Course Number	Course Title	Credit Hours
ART 165	Two-Dimensional Design	3
ART 167	Color	2
ART 272	Introduction to Graphic Design	4
ART 274	Graphic Design I	4
Total Credit Hours		13

Information Systems Institutional Endorsement

School of Engineering

Course Number	Course Title	Credit Hours
BUS 162	Business Computer Applications	1
CPS 201	Coding I	4
CPS 202	Coding II	4
* CPS 303	Data Management	3
* MIS 301	Information Technology Management	3
Total Credit Hours		15

INSTITUTIONAL AND OTHER ENDORSEMENTS

International Business Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
COM 368	Intercultural Communication	3
IBS 223	Biblical Foundations of International Business	3
IBS 305	Principles of International Business	3
Choose one of the follo	wing	
POL 312 or POL 322	International Relations or Globalization: International Economics	3
SOC 311	Racial and Ethnic Relations	3
Total Credit Hours		12

International Education Leadership Institutional Endorsement

School of Education

This endorsement is not recognized by MDE and is available only in conjunction with teacher education programs.

Course Number	Course Title	Credit Hours
^ EDU 290	Independent Study (field-based content)	2
^ EDU 390	Independent Study (comprehensive thesis)	2
§* EDU 430	Seminar in Teaching	1
^* EDU 450	Directed Teaching (international setting)	3-6
COM 368	Intercultural Communication	3
Total Credit Hours		11-14

Cross Cultural Study: Students may embed coursework for this institutional endorsement in the COR 375 experience.

Management Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
BUS 432	Human Resource Management	3
BUS 325	Principles of Management	3
BUS 371	Organizational Behavior Management	3
Choose one course from	the following	
* BUS 426	Operations and Supply Chain Management	3
ENT 201	Small Business Management: An Entrepreneurial Approach	3
Total Credit Hours		12

Management of Health Care Systems Institutional Endorsement

Department of Nursing

This institutional endorsement is offered only online to students with at least junior standing (58 credit hours).

Course Number	Course Title	Credit Hours
MHS 231	Fiscal Management in Health Care	3
MHS 342	Health Care Systems	3
MHS 431	Administration of Health Care Systems	3
MHS 433	Health Care Systems Leadership	3
Total Credit Hours		12

Marketing Institutional Endorsement

Gainey School of Business

Course Number	Course Title	Credit Hours
APR/MKT 207	Advertising	3
MKT 221	Marketing Principles	3
MKT 275	Sales	3
MKT 340 or MKT 341	Consumer Relations or Retailing	3
Total Credit Hours		12

Photography Institutional Endorsement

Department of Media and Visual Arts

Course Number	Course Title	Credit Hours
ART 205	Foundations of Photography	3
* ART 306	Tools and Techniques of Photography	3
* ART 406	Portrait and Commercial Photography	3
* ART 436	Photography Portfolio	2
^{&} COM 390	Independent Study (Pulse)	1
Total Credit Hours		12

[&]amp; Mandatory for majors in the communication and/or media and visual arts depts. Optional or petition to waive for other majors.

Professional Writing Institutional Endorsement

Department of Communication

Course Number	Course Title	Credit Hours
^{&} COM 390	Independent Study (Pulse)	1
WRT 310 and WRT 316	Multimedia Reporting and Copy Editing	3 and 3
Choose one of the following		
VID 314	Scriptwriting	3
WRT 306	Writing for Children	3
* WRT 373	Feature Writing	3
Choose one of the following		
AUD 302	Podcasting	1
COM 312	Design Tools: InDesign	1
COM 313	Design Tools: Photoshop	1
Total Credit Hours		10-11

[&]amp; Mandatory for majors in the communication and/or media and visual arts depts. Optional or petition to waive for other majors.

Prerequisite: WRT 216 Writing for the Media

Speech Institutional Endorsement

Department of Communication

Course Number	Course Title	Credit Hours
BUS 403 or COM 404	Argument and Persuasion for Business or Persuasion	3
SPE 242	Story Telling	3
SPE 265 or SPE 342	Acting Techniques or Oral Interpretation and Voice	3
Total Speech Minor Credit Hours		9

Teaching Endorsements

See Teacher Education section of this catalog.

Teaching English as a Second Language Institutional Endorsement

School of Education

This endorsement is not recognized by the MDE and is available to any and all majors.

Course Number	Course Title	Credit Hours
^ TSL 311	Cross Cultural Communication	4
^* TSL 321	Essential Linguistics for Teachers of English Language Learners	2
§* TSL 326	Methods and Materials for Teachers of English Language Learners	4
§* TSL 327	Teaching Grammar for English Language Learners	2
Total Credit Hours		12

Field Participation Hours: Students in the TESL endorsement must complete 27 clock hours of field work in a preapproved community program.

Trauma, Growth, and Resiliency Institutional Endorsement

Department of Psychology

Course Number	Course Title	Credit Hours
PSY 242	Death, Grief and Loss	3
* PSY 301	Positive Psychology	3
* PSY 362	Understanding Trauma and Developing Resiliency	2
Choose one course from	the following.	
* PSY 300	Infant and Early Childhood Development	3
* PSY 306	Middle Childhood and Adolescent Development	3
Total Credit Hours		11

Prerequisite Course: PSY 100 Introduction to Psychology ^π

Urban Education Leadership Institutional Endorsement

School of Education

This endorsement is not recognized by the MDE and is available only in conjunction with teacher education programs.

Course Number	Course Title	Credit Hours
 EDU 290 and EDU 390 	Independent Study courses, one with field-based content	2 and 2
§* EDU 430	Seminar in Teaching	1
^* EDU 450	Directed Teaching (urban setting)	3-6
SOC 300 or SOC 311	Urban Sociology or Racial and Ethnic Relations	3
Total Credit Hours		11-14

Urban Visit Days and Field Participation Hours: Students in the urban education leadership endorsement must participate in two all-day trips in an urban setting arranged by the School of Education. Students must complete at least 40 clock hours of field work in a preapproved urban setting.

Video Production Institutional Endorsement

Department of Media and Visual Arts

Course Number	Course Title	Credit Hours
VID 202	Video Production	4
VID 306	Advanced Video Production	4
VID 315 or COM 313	Design Tools: Premiere Pro or Design Tools: Photoshop	1
VID 372 or VID 376	Short Film Production or Editing	3
Total Credit Hours		12

Recommended Support Course: ART 205 Foundations of Photography. ART 205 meets the General Education Fine Arts Pathway requirement.

Web Development Institutional Endorsement

School of Engineering

Course Number	Course Title	Credit Hours
ART 335	Web Design	3
COM 324	Web Content and Management	3
CPS 202	Coding II	4
* CPS 203	Web Design and Development	3
Total Credit Hours		13

Symbol Key for All Endorsements

- § Grade of "B-" or better required.
- ^ Grade of "C" or better required.
- * This course has a prerequisite.
- ^π Meets a General Education requirement.

COURSE INFORMATION

The University reserves the right to cancel or reschedule any course(s) or sections without notice due to insufficient enrollment or faculty unavailability.

Course Codes

Course Prefix

To identify the department that administers each course, a prefix, or series of alpha characters, are assigned to each course. The alpha characters are closely related to the course's general discipline area.

Course Numbering

All courses are given a series of numbers after the prefix. The first number identifies the level of academic rigor students can expect from the course and, in general, who should be taking the course.

- Courses numbered 1## are lower-level, introductory courses (primarily freshmen).
- Courses numbered 2## are lower-level, introductory/intermediate courses (primarily sophomores).
- Courses numbered 3## are upper-level, intermediate/advanced courses (primarily juniors).
- Courses numbered 4## are upper-level, advanced courses (primarily seniors).

The second and third numbers carry no meaning except to distinguish them from other courses.

Course Equivalencies

Course equivalencies are evaluated by the Office of Registration and Records on a case-by-case basis at the point of transfer or through the petition process. Course equivalencies are typically assigned to transfer courses or to replacement courses when there are changes to SAU curriculum. To be equivalent, the description and content or objectives of the two courses must show significant similarity. Equivalent courses are taught at the same level.

Course Substitutions

Course substitutions are evaluated by the Office of Registration and Records on a case-by-case basis at the point of transfer or through the petition process and in consultation with or by recommendation of academic program faculty. Course substitutions may be approved when an equivalent course is not available or upon transfer of a course that meets academic requirements of the program, such as a curriculum elective. If a required course is being replaced, the substitution course must be the same or closely related academic discipline as the required course, and strong justification must be provided for the substitution to be approved.

Upper-level courses may be substituted with courses numbered 200-299, but in general, courses numbered 100-199 may not substitute for upper-level courses unless they are part of the statewide transfer agreement or as approved by department and registrar. Credit hours of lower-level courses substituting for upper-level courses do not calculate into the upper-level credit hour requirement.

Course Waivers

Certain courses in the SAU curriculum have standing waiver policies (see program information). Other courses without a policy may be waived by petition as recommended by discipline faculty and approved by the registrar. Course waivers do not carry credit hours, so students may need to take elective courses to fulfill credit hour requirements of the academic program or for graduation. Waivers are not granted in cases where the student has non-course experience or existing knowledge of course content. In these cases,

COURSE INFORMATION

students may opt for credit by exam or participation in prior learning assessment to validate their learning or competence.

For a course with no standing waiver policy to be eligible for a waiver, there must be no equivalent or substitution course available, or the course is being eliminated from the program and shortages in resources make it impossible to teach the course by tutorial. The integrity and rigor of the academic program will be strongly considered in the approval of waivers. Course equivalencies, substitutions and tutorials are preferred over waivers.

Credit Hours

In the course descriptions, the number in parentheses following the title of the course indicates the number of semester credit hours allotted for the course. For example, (3) would indicate three semester credit hours.

Course Rotation and Location

In the course descriptions, the information inside the parentheses following the credit hours indicates when and where the course is offered. The following key can be used to determine rotation and location.

- Fall, Interim, Spring or Summer inside parentheses identifies the term of offering.
- Odd and Even identifies the calendar semester the course is offered (e.g., a course labeled "Odd Falls" is offered fall 2021, 2023, 2025, etc.; "Even Springs" is offered spring 2022, 2024, 2026, etc.)
- Sites, Online courses are offered at locations other than main campus. These locations typically, do
 not have a semester offering listed with them. Courses listed without Sites or Online are offered on
 main campus only.

Prerequisites

Prerequisites are courses that need to be completed prior to taking the next course in a sequence. Prerequisite requirements appear immediately following course descriptions. Instructors or departments have the latitude to permit students to take a course with unmet prerequisites by making a request to the Office of Registration and Records.

Corequisites

Corequisites are courses that are taken simultaneously with another course. Corequisite requirements appear immediately following course descriptions or prerequisites if applicable. Students must be given permission by the academic department and registrar's office for registration exceptions for corequisites.

Courses for All Disciplines

155, 255, 355 Experimental Courses

Used for non-catalog courses a department may be offering one time or to gage student interest. If the course becomes a regular offering, a new number is assigned, and the course is listed in the catalog. These numbers may also be used for courses a student takes in an off-campus location (semester abroad study).

285 Exploratory Experience

A non-classroom learning experience, incorporating work in a professional or career area supervised by a qualified person and a non-directed living-learning experience. Students are expected to evaluate the experience in light of coursework, career plans, and/or personal growth. One credit hour per 40 clock hours of non-repetitive experience. Sponsoring instructor required. Registration paperwork must be processed prior to the activity. Graded "S"/"U."

170, 270, 370, 470 Special Topics

Special topics courses offered occasionally by departments. May not be offered by each department each semester.

385 Practicum

Primarily an unpaid, observational learning opportunity in a discipline-related work environment with approval from an academic department. Approval is granted only if there is evidence of significant new learning opportunities related to the student's discipline. One credit hour per 40 clock hours of non-repetitive experience. A work supervisor and an academic supervisor are required. Registration paperwork must be processed prior to the activity. A limit of two practica and maximum of 12 credit hours with no more than 8 credit hours counting toward the major unless required by the academic program. Guidelines may be obtained from the academic department. If a campus student registers during the summer (May to August), up to 4 credit hours can be covered by block tuition if the student was registered full-time for fall and spring but not registered for interim in that same academic year. Graded "S"/"U." *Prerequisite: minimum of 12 credit hours already completed in the discipline*

290, 390 Independent Study

Provides opportunities for students to research and/or complete special projects and/or reading to enrich their academic experience. Regularly listed catalog courses cannot be taken under this format (see Tutorial Courses). Directed by the student with only preliminary guidance and final evaluation from the sponsoring instructor. Graded "S"/"U" or with a standard letter grade if satisfying a course in a major or minor. A maximum of two independent studies may be completed in a student's academic program.

Prerequisite: 6 discipline credit hours completed (290); 12 discipline credit hours completed (390)

450 Internship

Internships mimic a conventional job in the discipline and must be significantly related to the student's major and/or concentration within the major. May be paid or unpaid. One credit hour per 40 clock hours of non-repetitive experience may be earned. A work site supervisor/evaluator and faculty advisor/supervisor are required. Specific readings, requirements and/or appropriate written assignments may be assigned by the faculty advisor. Guidelines for an internship may be obtained from the academic department. Registration paperwork must be processed prior to the activity. If a campus student registers during the summer (May to August) for a required internship, up to 4 credit hours can be covered by block tuition if the student was registered as a full-time student for both fall and spring but not registered during the interim in that same academic year. Graded "S"/"U."

Prerequisite: a minimum of 18 credit hours already completed in the discipline

460 Senior Research Project

Design and complete a research project in the student's major area of study. A thesis is required. Seniors only.

490 Senior Honors Project

A significant project of scholarly productivity and/or research in the student's major area of study. *Prerequisite: senior status and a GPA of 3.50 in the major.*

ACC (Accounting)

ACC 221 Principles of Accounting I (3) (Fall)

Involves the study of the principles of bookkeeping and financial reporting. Examines the accounting cycle, which deals with the analysis, journalizing, and posting of business transactions within the double-entry framework, and specialized accounting procedures for service and merchandising businesses.

Prerequisite: SAT Math Subtest score of 29 or equivalent or a math over MAT 100.

ACC 222 Principles of Accounting II (3) (Spring)

A continuation of ACC 221 Principles of Accounting I. Shifts emphasis from sole proprietorships and partnerships to corporations operating in a manufacturing environment. Includes preparation and analysis of financial statements. *Prerequisite: ACC 221 Principles of Accounting I.*

ACC 314 Cost and Managerial Accounting Theory (3) (Odd Falls)

Explores the nature of cost accounting, cost concepts and terms, and the flow of costs in an accounting system using case studies to enhance an understanding of real-life applications. Focuses on the use of accounting data by managers and cost accounting fundamentals, standard costing, cost allocation, costing systems, and variance analysis.

Prerequisite: ACC 222 Principles of Accounting II.

ACC 317 Intermediate Accounting I (3) (Fall)

Covers objectives of accounting and the processes that have evolved in response to the objectives. Students develop an understanding of basic accounting statements and the limits involved in their preparation. A detailed study of the conceptual framework of accounting, income statements, balance sheet, and all assets.

Prerequisite: ACC 222 Principles of Accounting II.

ACC 318 Intermediate Accounting II (3) (Spring)

A continuation of Intermediate Accounting I with a more detailed study of liabilities, income tax accounting, owner's equity, statements of cash flows, financial statement analysis, and price change accounting.

Prerequisite: ACC 317 Intermediate Accounting I.

ACC 341 Cost and Managerial Accounting Practice (3) (Even Springs)

Examines how managers use cost accounting data in the task of conducting businesses. Highlights the benefits of a thorough understanding of accounting information. Broadly exposes how management accountants contribute to the internal decision-making process. Topics include determining cost behavior, cost relevance and the decision process, pricing decisions, management control systems, cost management in the context of quality and time, inventory management, decentralization and transfer compensation, cost-volume-profit and budgeting, and control. *Prerequisite: ACC 222 Principles of Accounting II.*

ACC 360 Accounting Information Systems (3) (Spring)

Studies computer-based information systems including basic concepts, accounting applications, internal controls, and system design and implementation. Includes PC-based accounting systems and their information processing methods. *Prerequisites: ACC 222 Principles of Accounting II and BUS 162 Business Computer Applications*.

ACC 391 Individual Taxation (3) (Even Falls)

Introduces the federal internal revenue code and income tax regulations applicable to individuals and partnerships, such as gross income, taxable income, income tax exemptions and deductions, income tax credits, tax basis of assets, tax determination, personal and dependency exemptions, property transactions, gross income, deductions and losses, depreciation, tax credits, and alternative minimum tax.

Prerequisite: ACC 222 Principles of Accounting II.

ACC 392 Organizational Taxation (3) (Spring)

Examines the federal internal revenue code and income tax regulations applicable to corporations. Topics to be covered are corporations (introduction, operating rules and related corporations), organization and capital structure, distributions in liquidations, corporate accumulations, as well as exempt entities.

Prerequisite: ACC 391 Individual Taxation.

ACC 404 Fund Accounting (3) (Odd Springs)

Emphasizes accounting for the state and local government units. Accounting for hospitals, colleges, universities and other not-for-profit organizations is also covered.

Prerequisite: ACC 317 Intermediate Accounting I.

ACC 442 Auditing Principles I (3) (Even Falls)

A capstone course integrating accounting standards, accounting systems, internal control structures, the auditing functions of evidence gathering, evaluation, and reporting within the context of the professional environment. Also includes the audit function, professional standards and ethics, the auditor's legal liability, the audit evidence process, and auditing sampling techniques. Designed to produce competence in auditing theory and practice.

Prerequisite: ACC 318 Intermediate Accounting II and BUS 351 Statistics. BUS 351 may be taken concurrently with proper authorization.

ACC 443 Auditing Principles II (3) (Odd Springs)

A continuation of ACC 442. Examines the audit engagement, beginning with planning of the engagement and risk assessment; the processes of auditing the revenue, conversion, financing, and investing cycles; and special reports, compilation, and review engagements. Concludes with the completion of the audit engagement and reporting on audited financial statements.

Prerequisite: ACC 442 Auditing Principles I.

ACC 447 Advanced Accounting (4) (Fall)

Examines special accounting problems relating to business combinations, the preparation of consolidated financial statements, accounting for partnerships, business failures, estates and trusts, etc.

Prerequisite: ACC 318 Intermediate Accounting II.

ACC 452 Accounting Theory (CPA Review) (4) (Spring)

Focuses on the development of a comprehensive philosophy of accounting. Critically examines the historical origins of accounting concepts, principles, and standards in light of current economic and social institutions. Reviews professional practice, current issues, and literature in accounting theory. All topics studied will be on the CPA exam. *Prerequisite: ACC 447 Advanced Accounting.*

AERO (Air Force ROTC)

AERO courses are available only through enrollment at the University of Michigan and can be transferred to SAU as electives.

AERO 101 Air Force Today I (1)

Examines the growth and development of the USAF; covers Presidential, Secretary of Defense, and JCS roles in the defense posture, and the national and U.S. military strategic concepts; studies the USAF contribution to strategic offensive, defensive, and General Purpose Forces and USAF supporting forces. Compares the dynamics and interaction of all U.S. military forces in the General Purpose role and their cooperative efforts in the national security posture.

AERO 102 Air Force Today II (1)

A continuation of the study of the growth and development of the U.S. Air Force begun in AERO 101. The course relates the mission and responsibilities of the various Air Force major commands to the U.S. defense posture and the U.S. military strategy. Emphasis is placed on the Air Force contribution to General Purpose forces and the dynamics, interactions, and cooperative efforts of all the Services in the General Purpose role for the national security posture. *Prerequisite: AERO 101*.

AERO 201 U.S. Aviation History and Its Development into Air Power I (1)

This course traces the development of aviation from the 18th century — a time of balloons and dirigibles — to the present and examines how technology has affected the growth and development of air power. In addition, this course traces the use and development of air power through World War I and World War II, the Korean and Vietnamese conflicts, employment in relief missions and civic action programs in the late 1960s, and employment in military actions concluding with Desert Shield/Desert Storm.

Prerequisite: AERO 102.

AERO 202 U.S. Aviation History & Its Development into Air Power II (1)

Examines the development of aviation from the 18th century, from balloons and dirigibles to the present, and how technology has affected growth and development of air power; traces use and development of air power through WW's I and II, the Korean and Vietnamese conflicts, employment in relief missions and civic action programs in the late 1960s, and employment in military actions concluding with Desert Shield/Desert Storm. *Prerequisite: AERO 201.*

AERO 310 Air Force Leadership and Management (3)

Concepts, principles and techniques of leadership are presented within the framework of behavioral theories. Emphasis on the leader, group, situation and their interaction as dynamic factors in an organizational environment. Historical overview of managerial development with emphasis on the social and physical setting in which the manager operates. The curriculum includes effective communications, decision making, planning and strategic management. *Prerequisite: AERO 202.*

AERO 311 Management and Air Force Application (3)

An integrated management course emphasizing the concepts and skills required by the successful manager and leader. Organizational and personal values (ethics), management of change, organizational power, politics, and managerial strategy and tactics are discussed within the context of the military organization. Actual Air Force case studies are used throughout the course to enhance the learning and communication process (lecture and seminar). *Prerequisite: AERO 310.*

AERO 410 National Security Forces in Contemporary American Society I (3)

Focuses on the Armed Forces as an integral element of society. Provides examination of a broad range of American civil-military relations, and the environmental context in which defense policy is formulated. Special themes include: societal attitudes toward the military; the role of the professional military leader-manager in a democratic society; the fundamental values and socialization processes associated with the Armed Services; the requisites for maintaining adequate national security forces; policy, economic, and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; the manifold variables involved in the formulation and implementation of national security policy. *Prerequisite: AERO 311.*

AERO 411 National Security Forces in Contemporary American Society II (3)

This course is a continuation of AERO 410 which examines the role of the military in contemporary American society. The course covers current issues affecting the military in the aftermath of the end of the Cold War and the lessons learned from the recent war in the Persian Gulf. Finally, AERO 411 prepares officer cadets for future active-duty services by explaining what is expected of them as professional military officers and how to prepare for the transition into the Air Force. Instruction is conducted via lecture and discussion. *Prerequisite: AERO 410.*

APR (Advertising and Public Relations)

APR 207 Advertising (3) (Spring)

Explores principles and vocabulary of advertising including ethical and social implications. Examines theories of persuasion and mass media related to marketing and consumer behavior. Cross listed MKT 207.

APR 309 Advertising Strategies (3) (Odd Falls)

Examines principles, methods, techniques, and ethics of advertising in media. Emphasis is on the execution of research-based creative strategies. Cross listed MKT 309.

APR 311 Corporate Communication (3) (Spring)

Analyzes the role, function, development, and application of communication in the corporate setting including employee communication, work styles, gender issues, nonverbal, listening, interviewing, resume writing, leading meetings, performance appraisals, small group/team problem solving, and professional presentations.

Prerequisites: ENG 104 College Writing, Gen. Ed. oral communication course (COM 212, SPE 100 or SPE 212).

APR 347 Public Relations (3) (Fall)

Analysis of public relations principles, including public opinion, image creation, maintenance of press, and community and constituency relations; practice in public relations program recommendations and design. Cross listed MKT 347.

ARA (Arabic)

ARA 155A Elementary Arabic I (3) (Kelsey Language School in Jordan)

Training in the elements of grammar, vocabulary acquisition, and pronunciation with practice in conversation.

ARA 155B Elementary Arabic II (3) (Kelsey Language School in Jordan)

Continuation of ARA 155A Elementary Arabic I.

Prerequisite: ARA 155A Elementary Arabic I.

ARA 255A Intermediate Arabic I (3) (Kelsey Language School in Jordan)

Acquisition of extensive vocabulary; development of conversation and communicative skills and survey of essential grammatical structures.

Prerequisite: ARA 155B Elementary Arabic II.

ARA 255B Intermediate Arabic II (3) (Kelsey Language School in Jordan)

Continuation of ARA 255A Intermediate Arabic I.

Prerequisite: ARA 255A Intermediate Arabic I.

ARA 355 Advanced Arabic and Culture Courses (3) (Kelsey Language School in Jordan)

May be repeated.

Prerequisite: ARA 255B Intermediate Arabic II.

ART (Art)

ART 152 Art Foundations (2) (Fall, Interim, Spring, Online)

Introduces art ideas, basic concepts, skills, and materials used by artists in visual and tactile perception. Examines art in its historic relationship to religion, visual media's influence on contemporary living, and the need for critical thinking and analysis for enrichment of art and life. Not applicable to major or minor.

ART 162 Drawing I (3) (Fall)

Introduces drawing principles and techniques, including contour, gesture, modeling, and shading, are used to explore forms of still life, landscape, and architecture. "C" or better for media and visual arts department majors.

ART 165 Two-Dimensional Design (3) (Fall)

Studio-classroom approach to the elements and principles of design. Various two-dimensional techniques are explored in line, shape, space, and texture to prepare the student for advanced work in the various areas of the visual arts. "C" or better for media and visual arts department majors.

ART 166 Three-Dimensional Design (4) (Even Springs)

Studio-classroom approach to the elements and philosophy of design. Traditional and contemporary techniques are examined and practiced with special attention to developing personal creativity. Works are executed in clay, plaster, wood, and mixed media. "C" or better for media and visual arts majors.

ART 167 Color (2) (Spring)

Explores the visual element and concepts of color used in the visual arts. Emphasis on color theories, color manipulation and color organization used in both graphic and fine arts. Students begin with the traditional color wheel to classic painting concepts through current color technology. "C" or better for art and design majors.

ART 205 Foundations of Photography (3) (Fall)

Introduces the methods, theories, processes, and history of photography using both digital and analog platforms.

ART 213 Painting I (3) (Odd Falls)

Introduces major techniques of painting and a full range of painting media and stylistic modes. Focuses on oil-based media. "C" or better for media and visual arts department majors.

Prerequisites: ART 162 Drawing I, ART 165 Two-Dimensional Design, ART 167 Color.

ART 263 Drawing II (4) (Spring)

Introduces principles of figure drawing with emphasis on anatomy, structure, form and articulation while working with different human subjects. "C" or better for media and visual arts department majors.

ART 272 Introduction to Graphic Design (4) (Fall)

Introduces the art of graphic design and its historical development and basic styles. Exposure to current software in relation to basic layout construction and design. "C" or better for media and visual arts department majors.

ART 274 Graphic Design I (4) (Spring)

Focuses on developing aptitude in graphic design work using current graphic design software. Explores basic terms, concepts, processes, and tools in contemporary design. Instruction in preparing art for reproduction, visual problem solving, and communication. "C" or better for media and visual arts department majors.

Prerequisite: ART 272 Introduction to Graphic Design.

ART 306 Tools and Techniques of Photography (3) (Spring)

Intermediate level examination of cameras, lighting, and photographic vision using digital and analog platforms. *Prerequisite: ART 205 Foundations of Photography.*

ART 314 Painting II (4) (Limited)

A continuation of ART 213 with emphasis upon a variety of media. Students are encouraged to experiment in new directions through the combination of various painting media with other two- or three-dimensional techniques. "C" or better for media and visual arts department majors.

Prerequisite: ART 213 Painting I.

ART 320 History of Modern Art (3) (Fall)

Examines major changes in the art world during the Modern and Post-Modern eras in relation to the primary artists, art pieces and movements. Explores the major Modern art movements such as Cubism, Futurism, Surrealism, Abstract Expressionism, and Pop Art, among others, as well as significant artists of the Modern era such as Pablo Picasso and Andy Warhol. Focuses on philosophical and theological changes reflected in modern art.

ART 326 History of Art: Renaissance to 19th Century Western Art (3) (Even Springs)

Explores the history of art from the 14th century through the 19th century.

ART 333 Graphic Design II (4) (Fall)

Analyzes advanced problems in layout and design technique for advertising art using current design software as a tool to prepare work for publication, and photo manipulation and retouching. Emphasis on the importance of qualitative and aesthetic standards in the graphic arts. "C" or better for media and visual arts department majors. Prerequisite: ART 274 Graphic Design I.

ART 334 Graphic Design III (3) (Spring)

Students design and prepare a graphic design/artwork portfolio to present as a career tool. Emphasis on visual problem solving for artistic and commercial applications. "C" or better for media and visual arts department majors. *Prerequisite: ART 333 Graphic Design II.*

ART 335 Web Design (3) (Even Springs)

A comprehensive study of Web design and multimedia, including the evolution of the Internet and its corresponding terms in relation to visual presentation. Students apply design elements from concept and design to preparation and production. Explores techniques for Web functionality and Web animation. "C" or better for media and visual arts department majors.

ART 376 Typography (3) (Even Falls)

Training in type design and layout, including the study of rules and conventions of design and a brief history of type styles in use today.

ART 406 Portrait and Commercial Photography (3) (Odd Falls)

An exploration of techniques and equipment used in portrait and commercial photography, both in studio and on location.

Prerequisite: ART 306 Tools and Techniques of Photography.

ART 415 Advanced Practice (3) (Fall, Spring)

Continued work in two- or three-dimensional design, including drawing, printmaking, painting, sculpture, ceramics, graphic design, and mixed media. Emphasis on individual direction and goals. "C" or better for media and visual arts department majors. Repeatable up to two times.

ART 416 Portfolio (3) (As recommended)

Students who do not pass ART 415 with a C" or better or who are unprepared for ART 470 may be required to take the Portfolio course. Special emphasis on fundamental design and creative problem solving within the student's concentration. Aids students in portfolio compilation that meets departmental standards. Taking or passing ART 416 does not exclude a student from taking ART 470. "C" for media and visual arts department majors. *Prerequisite: ART 415 Advanced Practice.*

ART 436 Photography Portfolio (2) (Even Springs)

Individualized advanced projects in photography with an emphasis on the process involved in generating a portfolio of images, a coherent body of work based upon a theme, concept, style or selected subject matter.

Prerequisite: ART 306 Tools and Techniques of Photography

ART 470 Art Seminar (1) (Spring)

Requires resume preparation; evidence of submission in a regional and national competition; a digital portfolio; and an 8- to 10-page paper covering the student's philosophy of art. Includes job interviews or application to graduate schools relative to pursuing work in art or furthering one's education. Graded "S"/"U." Seniors only.

ART 471 Senior Art Exhibition (3) (Fall, Spring)

Students prepare and exhibit a body of high-quality work related to their emphasis. The exhibition process develops skills, attitudes, and values needed for success in graduate study in visual art and professional careers. A show statement and promotional materials will be submitted. The senior exhibition must be hung within one semester after completing ART 470 Art Seminar. Graded "S"/"U." A senior art exhibition may qualify for honors.

ASI (AuSable Institute)

ASI courses are administered through the AuSable Institute. Real-time course listings and descriptions are found at www.ausable.org.

ASI 301 Land and Water Resources (4) (Great Lakes, Summer I)

Systems-level perspective on landforms, hydrology and ecosystems. Analysis and interpretation of map and field data, remote sensing data derived from satellites and aircraft, and geographic information systems (GIS), including field trips to and analysis of earth surface process and landforms of glaciers, soils, lakeshores, rivers and groundwater. Includes application to policy and land use planning.

Prerequisite: one year of introductory science.

ASI 302 Lake Ecology and Management (4) (Great Lakes, Summer II)

Field study of lakes and other freshwater systems with applications to planning and management, including an introduction to limnology and investigation of representative lakes, streams, and wetlands of the region. Compares the North American Great Lakes and their stewardship with other great lakes of the world.

*Recommended: one year of general biology and one year of general chemistry.

ASI 303 Ecological Agriculture (4) (Pacific Rim, Summer II)

Focuses on development of agricultural systems to better resemble natural ecosystems to achieve food for

communities, vibrant economies, and healthy ecosystems. Focuses on agricultural principles applied in rural, urban, temperate, and tropical settings, and issues of justice, public policy, and other difficult, practical, and ethical issues.

ASI 304 International Development and Environmental Sustainability (4) (Pacific Rim, Summer II)

Principles of sustainable development, examining ecological sustainability and sustainable society in the context of various factors that are bringing environmental degradation and impoverishment to people and cultures. Addresses problems associated with tropical agriculture, hunger, poverty, international debt, appropriate technology, relief programs, missionary earth-keeping, conservation of wild nature, land tenure, and land stewardship and the resolution of practical and ethical issues associated with these problems. Classroom and field settings.

ASI 310 Environmental Law and Policy (4) (May Online)

Analysis of the policy-making process at local, national, and international scales with examination of environmental policy challenges including climate change, resource management, and energy development. Students will interact with regional policymakers and land managers in the field to consider linkages between policy and science and ways for science to inform the policy-making process. Considers environmental ethics, environmental justice, and environmental advocacy.

ASI 311 Field Botany (4) (Great Lakes, Summer I)

Field and lab identification, systematics, natural history, and ecology of vascular plants as components of natural communities and their relationships to ecological features, including stratification, history, plant zonation, adaptation, and animal interactions are examined. Explores relationships of plant families and higher groups are covered. *Prerequisite: one year of general biology or one semester of botany.*

ASI 318 Marine Biology (4) (Pacific Rim, Summer II)

Biology of marine plants and animals in the field. The focus of the course is on intertidal life and marine ecology in oceanic and geophysical context. Includes trophic dynamic relationships of eel grass communities and the intertidal zone, workings of the island systems of Puget Sound, ecological roles of sea birds and fishes, population and community structure dynamics, exploitation and oceanic microbialization, and biogeochemical processes and their linkages with the biosphere. Examines marine stewardship and effects of human activity on the marine environment.

ASI 321 Animal Ecology (4) (Great Lakes, Summer I)

Interrelationships between animals and their biotic and physical environments, emphasizing animal population and community dynamics. A field course that centers on the ecology of northern Michigan fauna from a field biology perspective with an emphasis on stewardship. Included are individual student projects.

Prerequisite: one year of introductory science.

ASI 322 Aquatic Biology (4) (Great Lakes, Summer I)

Ecology, identification, systematics, culture, and care of aquatic plants and animals, and adaptations to freshwater environments as determined by direct investigation in lakes, ponds, bogs, marshes, streams, and in the laboratory. Assesses human impacts on aquatic species and ecosystems, presents procedures for the stewardship of aquatic habitats, and introduces aquatic restoration ecology.

Prerequisite: one year of general biology or one semester each of general zoology and general botany.

ASI 342 Fish Ecology and Management (4) (Great Lakes, Summer II)

Introduces the relation between freshwater fish and their environments in lakes and streams. Examines techniques and technologies employed to manage populations and species for conservation, recreational use, and commercial harvest; freshwater fish taxonomy and phylogenetic relationship; habitat requirements of major fish species by life stages; stream habitat assessment; population measuring and monitoring; strategies for management of recreational and commercial species; and conservation of threatened and endangered species.

ASI 343 Sustainability, Tropical Agriculture, and Missions (4) (Costa Rica, May)

Introduces sustainability and tropical agriculture with applications for working with resource-poor farmers. Includes the scientific basis of low-cost techniques, tropical crops and their requirements, issues in Christian missions and development, urban gardening, and small animal techniques in the context of agricultural employment and economy. Includes several trips to different ecosystem regions of Costa Rica.

ASI 345 Wildlife Ecology (4) (Great Lakes, Summer II)

Ecology, conservation, and stewardship of wildlife and their habitats. Includes examination of growth and structure of populations, environmental and human social factors affecting wildlife communities, and theories and applications of wildlife conservation. Set in the context of the historical development of the field from management to ecology to the land ethic of Leopold. Includes management and stewardship of non-game and endangered species, and long-term prospects of wildlife in changing environmental, climatic, and social contexts.

Prerequisite: BIO 111 Introductory Biology or permission.

ASI 358 Field Techniques in Wetlands (4) (Great Lakes, Summer I)

A comprehensive overview of wetland ecosystem processes, values, legislation and quantification. Students will learn to evaluate and quantify soils, hydrologic status and vegetation in a variety of wetland ecosystems including bogs, emergent marshes, forested wetlands and wetlands converted for agriculture, and to apply tools developed by the US Army Corps of Engineers and MI Dept. of Environmental Quality to assess wetland extent and habitat quality. *Prerequisite: BIO 111 Introductory Biology I and BIO 112 Introductory Biology II.*

ASI 359 Marine Mammals (4) (Pacific Rim, Summer II)

Biology, behavior, ecology, identification, and marine mammals' conservation. Covers some major habitats in Puget Sound and the Salish Sea, with attention to the diving physiology, social behavior, and communications of whales and seals. Aims to develop a stewardship perspective rooted in biological principles and directed at the global conservation of marine mammals and their ecosystems. Special attention cultures of the region and current issues. Prerequisite: BIO 111 Introductory Biology I and BIO 112 Introductory Biology II, and a semester of anatomy and physiology is recommended.

ASI 361 Field Biology in Spring (4) (Great Lakes, May)

A field-based introduction to the natural history of northern Michigan and its plants and animals, including their field identification, field biology, behavior, and landscape context, with a focus on spring activity of biological communities.

ASI 362 Environmental Applications for GIS (4) (Great Lakes, Summer II)

Theory and application of spatial analysis for applied social and ecological problem solving. Combines GPS field data collection; ArcGIS use for storage, processing, interpretation, and presentation of data; location and integration of existing source information; and remote-sensing integration with GIS applications. Designed around an environmental project to apply GIS techniques for real-world problem-solving in protecting and restoring ecosystems.

ASI 365 Insect Ecology (4) (Great Lakes, May)

Ecology, systematics, life history, and behavior of terrestrial and aquatic insects with an emphasis on field identification skills while exploring a variety of local habitats and considering the roles of insects in pollination, decomposition, herbivory, predation, and pathogen transmission. Explores the use of insects in citizen science, including participation in the MiCorps stream monitoring program that provides familiarity with stream sampling and macroinvertebrate communities.

ASI 368 Forest Ecology (4) (Pacific Rim, Summer II)

Studies the abiotic environment, species interactions, and ecosystem processes in contrasting forest ecosystems of the Pacific Northwest including lowland temperate rain forests, montane forests on the slopes of the Cascades, and sub alpine parkland near tree line in the Olympics. Introduces quantitative research approaches relevant to forest systems including data collection, management, and basic analysis.

Prerequisites: BIO 111 Introductory Biology I and BIO 112 Introductory Biology II.

ASI 371 Forest Management (4) (Great Lakes, May)

Introduction to site-level, landscape, and multistakeholder approaches to forest management, including strategies of climate change adaptation and mitigation. Theory, application, and techniques of forest management for specified values and objectives, including instrumental (economic/utilitarian and life support such as wood production, habitat and watershed protection, and climate moderation) and non-instrumental values (such as aesthetic, moral/spiritual values, e.g. recreation). Addresses the evolution of forest management and some specific practices, methods, and techniques of growing trees and the development and care of forests (silviculture) as applied to natural forests.

ASI 471 Conservation Biology (4) (Great Lakes, Summer I)

Conservation biology principles with applications to sustainable human society and biospheric integrity. An integrative approach to biology and society that interrelates population biology, ecological principles, biogeochemical cycles, ecosystem functions, and human society in the context of biospheric degradation. Develops a stewardship perspective rooted in biological principles and directed at conservation of plant and animal species, biotic communities, ecosystems, and human society. Included are topics of human development, poverty, and economic growth. *Prerequisites: BIO 111 Introductory Biology I and BIO 112 Introductory Biology II, and one course in ecology.*

ASI 478 Alpine Ecology (4) (Pacific Rim, Summer II)

Ecology of the mountains of the Pacific Northwest, with particular attention to adaptation of plant and animal life to montane climates and altitudes, and analysis and interpretation of altitudinal zonation of biotic communities with applications to latitudinal biogeography. Includes topics of physiological responses of organisms to reduced oxygen levels, low temperatures, and high-altitude radiation regimes. Field work in the Olympic Mountains.

ASI 482 Restoration Ecology (4) (Great Lakes, Summer II)

Ecological principles for ecosystem restoration and applications for restoring degraded and endangered species. Field studies include analysis of restoration and rehabilitation work with the Kirtland's warbler, an officially designated wild river, coastal dunes, kettle-hole bogs, deforested lands, degraded residential and farming sites, and abandoned oil wells. A practical field lab is included in which techniques are applied to a specific site.

Prerequisite: one year of biology and one course in ecology or field biology, or permission of instructor.

AUD (Audio Production)

AUD 174 Radio Production (3) (Even Falls)

Examines day-to-day operations of a radio station. Introduces principles of station management and promotion, and techniques used to write, produce, and perform various types of programming for live and voice-tracked broadcasts.

AUD 302 Introduction to Podcasting (1) (Odd Interims)

Students create and distribute a podcast. Emphasis on identifying theme, writing dynamic copy, interviewing and using mechanics of production including audio editing and mixing. Required access to audio editing software.

AUD 321 Sound Design (3) (Odd Falls)

A concentrated study of the science of sound and audio in both live and studio settings. Explores concepts of microphone construction, design and placement, acoustics, mixing, equalizing, recording and sound editing for film, video and live events. Emphasis on practical, hands-on application of audio recording principles and practices.

BIB (Biblical Studies)

BIB 217 Survey of the Old Testament (3) (Fall, Interim, Spring, Online)

Surveys the Old Testament as a collection of sacred Jewish and Christian texts, as divine revelation, and as a source for spiritual formation and ministry, focusing especially on the ways these texts depict God, the identity and destiny of humankind, and the role of the community of faith in God's redemptive work in the world. Introduces critical approaches to interpretation of the Old Testament. Considers and emphasizes how to faithfully embody these texts.

BIB 218 Survey of the New Testament (3) (Fall, Interim, Spring, Online)

Surveys the New Testament, focusing on the presentation of Jesus Christ, his life, his message and his church. Examines the New Testament as a collection of 1st century documents of the Early Church, as the revelation of God, and as a source for spiritual formation and ministry. Introduces critical approaches to the interpretation of the New Testament. Considers and emphasizes how to faithfully embody these texts.

BIB 220 Biblical Interpretation (3) (Spring)

Introduces interpretation of the Bible as the Church's Scriptures using a variety of ecclesial lenses (encompassing patristic, medieval, Reformation, critical, and post-critical contributions). Students develop initial skills in the inductive study of biblical texts, in the larger process of biblical exegesis, and in the engagement of biblical texts as part of the Church's ongoing theological reflection and practice.

BIB 302 Old Testament Historical Books (3) (Even Interims)

An exegetical study of Joshua through Esther as part of the Church's Scriptures. Specific emphasis on the development of interpretation skills of these predominantly narrative materials; critical issues that arise from this particular genre; and the role of these biblical texts in the Church's ongoing theological reflection.

BIB 303 Prophets and Politics (3) (Even Springs)

An exegetical study of selected books in the Old Testament corpus of major and minor prophets as part of the Church's Scriptures. Specific emphasis on interpretation skills of these biblical texts; critical issues that arise from this particular genre; and the role of these texts in the Church's ongoing theological reflection and Christian witness.

BIB 304 Genesis: Creation and Fall (3) (Odd Springs)

Focuses on the book of Genesis as part of the Church's Scripture. Attention given to presuppositions and interpretative methodologies (such as historical, literary, and canonical criticism). Emphasis on the text's significant theological contributions to Christian teachings about God, humanity, creation and salvation.

BIB 308 History of the Bible: Origins, Development and Canon (3) (Odd Falls)

Examines the production and transmission of written materials in the ancient world. Focuses on the strengths and weaknesses of Hebrew, Aramaic, and Greek as vehicles of written communication. Evaluates and compares the various theories of canonization and examines the historical process by which they occurred. Includes principles of text criticism, text assessment, and decision-making related to various translations. Explores guidance in choosing biblical versions, identifying landmarks in the history of biblical translation, and issues of the current debate.

BIB 313 Four Gospels; One Jesus (3) (Even Springs)

An exegetical and theological study of the four canonical Gospels: Matthew, Mark, Luke, and John. Analyzes the unique nature and character of each Gospel while affirming the unity of their presentation of Christ. Emphasis on current critical approaches and the role of these texts in the Church's on-going theological reflection, preaching, teaching, and practice. Addresses critical issues arising out of careful study of these biblical texts, such as the synoptic problem, the unique nature of the gospel of John, and the question of the historical Jesus.

BIB 333 Paul: Preacher, Pastor, and Theologian (3) (Odd Springs)

An exegetical study of selected letters of the Pauline corpus. Emphasis on current critical approaches to these letters, to the development of skills in the interpretation of these and other letters, and to the role of these texts in the Church's ongoing theological reflection. Addresses critical issues arising out of the careful study of these texts, such as authorship questions, influences on the life of Paul, and the relationship of these letters to the materials in Acts.

BIB 342 Hebrew History and Geography (3-4) (Limited)

Normally, a travel seminar to Israel during interim, includes archaeology. On campus, a study of the historical books of the Old Testament and intertestamental Jewish history. Cross listed GEO 342, HIS 342.

BIB 403 History of Biblical Interpretation and Criticism: 1750-1950 (3) (Odd Springs) See HIS 403.

BIB 404 Biblical Wisdom and Postmodern Culture (3) (Even Falls)

The exegetical study of texts from the Psalms, Job, Proverbs, Ecclesiastes, and Song of Songs to assess the canonical role and theological contributions of these materials within the life of the Church. Considers perspectives on reality which these materials offer, as well as attendant implications for Christian doctrine, ethics, and spiritual formation.

BIB 407 Revelation, Eschatology, and the End of the World (3) (Even Falls)

An exegetical, historical, and theological study of the Revelation (or Apocalypse) of John. Surveys apocalyptic texts in the Old Testament, the Intertestamental period, and the Gospels in order to provide an interpretive framework for reading the Revelation. Broadly considers the topic of eschatology (study of the end times) with emphasis on the 2nd Temple Jewish eschatology, early Christian eschatology, and contemporary understandings of the end of the world.

BIB 408 The Bible in Global Perspectives (3) (Odd Falls)

Addresses key issues in contemporary readings of the Bible, drawing upon hermeneutical and theological tools, and

explores biblical interpretation and theological development of the church in Africa, Asia, Latin America, and among minority communities in the West. Enables students to engage with global perspectives on Christian faith and practice and foster their skills as Bible interpreters and theologians.

BIB 484 Seminar in Bible (3) (Limited)

Advanced seminar in Bible, offering exegetical study of selected texts. Even years will focus on Old Testament; odd years will focus on New Testament. Students hone interpretive, research, presentation, and/or teaching skills through assignments such as interpretive projects, research papers, critical book reviews, and in-class presentations (including, but not limited to, leading the seminar). Students who know biblical languages are encouraged to engage the Bible in its original language. Recommended for students planning to pursue graduate studies.

BIO (Biology)

BIO 100 Principles of Biology (4) (Fall)

Introduces the non-biology major to the entire field of biology. Introduces basic concepts and facts of biology, the methods by which this information is gained, and the issues that arise with the development and use of these facts and concepts. Does not count toward major or minor. Includes lab.

Corequisite: BIO 100L.

BIO 101 Principles of Human Biology (3) (Online)

A survey course covering the basic principles of human biology including cells, metabolism, basic human anatomy and physiology, human impacts on the environment, and the science behind such topics as diet, alcohol and drug abuse, smoking, common human diseases, and pollution. For site or online students only. Students in main campus programs may petition to register for this course, but petitions will be granted for only extreme circumstances. Includes lab.

BIO 111 Introductory Biology I (4) (Fall)

A survey of organismal biology, anatomy, physiology, energetics, cell structure, phylogeny, ecology, and environmental biology. Includes lab.

Corequisite: BIO 111L.

BIO 112 Introductory Biology II (4) (Spring)

A survey of the cellular, molecular, and genetic bases of life. Includes lab.

Corequisite: BIO 112L.

BIO 170 Freshman Seminar in Biology (1) (Fall)

Introduces requirements for success in biology with academic and vocational focus. Uses guest speakers and seminars. Emphasizes skills in scientific writing style and the evaluation of scientific claims.

BIO 206 Genes and Speciation (3) (Limited)

Introduces evolutionary biology. Basic population genetics and discussions of how selection, migration, mutation, and genetic drift affect Hardy-Weinberg equilibria. Examines speciation, the history of life on earth, and Christian responses to the origins debate.

BIO 232 Microbiology for Nurses (3) (Fall)

Essential structure and function of microorganisms with focus on recent advances in medical microbiology, pathogens, disease control, and natural and artificial immunity. Includes Lab. "B-" or better required.

Prerequisites: BIO 265 Anatomy and Physiology II and CHE 142 General Organic Biochemistry.

Corequisite: BIO 232L

BIO 234 Pathophysiology for Nurses (3) (Spring)

Examines why certain diseases affect physical appearance; medication effectiveness, side effects, and reasons for complications; and how pathophysiology forms the rationale for evidence-based medicine. "B-" or better required. *Prerequisites: BIO 265 Anatomy and Physiology II, and CHE 142 General Organic Biochemistry.*

BIO 236 Pharmacology for Nurses (3) (Spring)

Introduces the principles of pharmacology, including pharmacokinetics, pharmacodynamics, mediation interactions, and potential adverse medication reactions. Emphasizes how drug classifications and nursing care relate to the safe administration of medication to patients across the lifespan. "B-" or better required.

BIO 261 Human Anatomy/Lab (4) (Spring)

A detailed study of the human organism at the cellular, tissue, and organ system levels. The relationship between structure and function is covered with emphasis on structural relationships. Laboratory study includes microscope work along with substantial organ and animal dissection.

Prerequisite: BIO 111 Introductory Biology I.

Corequisite: BIO 261L.

BIO 262 Genetics for Nurses (3) (Spring)

Genetic bases for health and disease. Basic genetic principles with applications to health care and the future of medicine. "B-" or better required.

Prerequisite: BIO 232 Microbiology for Nurses.

BIO 264 Anatomy and Physiology I/Lab (4) (Fall)

First in a two-course series. Essential elements of basic biology plus detailed study of anatomy and physiology. Examines each system of the body regarding both structure and function. Special emphasis placed on medical and health applications of class material. Material to be covered: essentials of biology (cellular and molecular basics), human cells and tissues, integumentary system, skeletal system, muscular system, nervous system, and endocrine system. Includes lab with histology and dissection. "B-" or better required for nursing majors.

Corequisite: BIO 264L.

BIO 265 Anatomy and Physiology II/Lab (4) (Spring)

Second in a two-course series. Continues the study of the structure and function of the body. Material to be covered: excretory system, reproductive system, cardiovascular system, immune system, lymphatic system, respiratory system, and digestive system. Includes lab. "B-" or better required for nursing majors.

Prerequisite: BIO 264 Anatomy and Physiology I/Lab.

Corequisite: BIO 265L.

BIO 281 Environmental Science (4) (Fall, Spring)

Current global and local environmental problems and concerns are examined. Scientific bases of problems and possible solutions are included. Topics include atmospheric pollution, population, energy, solid waste, toxic waste, water and others. A biblical stewardship approach is integrated with course context. Includes lab.

Corequisite: BIO 281L.

BIO 305 Principles of Genetics (4) (Fall)

Introduces the underlying concepts in genetics. Includes a detailed study of Mendelian inheritance patterns in a variety of organisms; an introduction to human genetic diseases; the genetic control of development; the genetics of populations; and evolution. Includes lab.

Prerequisites: BIO 111 Introductory Biology I or BIO 112 Introductory Biology II.

Corequisite: BIO 305L.

BIO 321 Parasitology (4) (Odd Springs)

Structure, life history, and effects on the host of various parasitic animals. Laboratory examination and demonstration of hosts and parasites. Includes lab.

Prerequisite: BIO 111 Introductory Biology I.

BIO 330 Plant Organismal Biology (4) (Odd Falls)

Studies of photosynthetic life, particularly plants, at the organismal level, including how mankind and society have been, are, and will be dependent upon photosynthetic organisms, the recognition, classification, and geographic distribution of plants, and the ecological impact and roles of photosynthetic life. Includes lab and field studies. *Prerequisites: BIO 111 Introductory Biology I and BIO 112 Introductory Biology II.*

BIO 342 Vertebrate Zoology (4) (Even Springs)

Lecture, laboratory, and field work in collection, identification, distribution, and environmental relationship of Michigan vertebrates. Includes comparative anatomy and physiology. Includes lab. Requires a long weekend field trip with some strenuous activities.

Prerequisite: BIO 111 Introductory Biology I.

BIO 345 Plant Cellular and Molecular Biology (4) (Limited)

Introduction to and application of the theories, concepts, and techniques of cellular and molecular biology directed towards the study of photosynthetic life. Integrates discussion and analyses of basic and applied biological research techniques, biotechnological systems, phytoremediation efforts, and medical/pharmaceutical applications involving photosynthetic organisms, particularly plants. Includes lab.

Prerequisites: BIO 111 Introductory Biology I, BIO 112 Introductory Biology II, and CHE 111 General Chemistry I, and junior standing or instructor's permission.

BIO 352 Microbiology (4) (Spring)

A comprehensive study of microorganisms including importance, diversity, metabolism, growth, control, genetics, host microbe interaction, immunity, and disease. Laboratory work supplements lecture and affords practice in identification, cultivation, and observation of microorganism.

Prerequisites: BIO 111 Introductory Biology I, BIO 112 Introductory Biology II, and CHE 111 General Chemistry I, or instructor's permission.

Corequisite: BIO 352L.

BIO 362 Principles of Ecology (4) (Fall)

A study of the components and interrelationships of the components of ecosystems. Topics include biotic-abiotic interaction, biotic-biotic interactions, species diversity, population ecology, species distribution, biogeochemistry, ecological change, and community ecosystem patterns and distribution. Includes lab.

Prerequisite: BIO 111 Introductory Biology I or BIO 112 Introductory Biology II.

Corequisite: BIO 362L.

BIO 365 Introduction to Pharmacology (3) (Spring)

Introduces pharmacodynamics, pharmacokinetics, and basic dosing theory. Survey of anti-hypertensives, lipid-lowering drugs, pharmacology regarding coronary artery disease and angina pectoralis, diuretics, asthma management, anti-inflammatory drugs, sympathomimetic drugs, and management of diabetes mellitus. Case studies, readings, and class discussion. Medical terminology appropriate to the preceding topics. Cross listed HES 365. *Prerequisites: BIO 111 Introductory Biology I, CHE 101 Introductory Chemistry, and junior standing.*

BIO 401 Cell Biology (3) (Odd Falls)

Advanced topics in cellular biology. Examines the structure in relation to the function of subcellular organelles of eukaryotic cells. Includes a survey of the current pertinent scientific literature.

Prerequisites: BIO 111 Introductory Biology I, BIO 112 Introductory Biology II, and CHE 112 General Chemistry II.

BIO 404 Human Physiology (4) (Even Falls, Even Springs)

A study of the function of organ systems as they relate to the human organism survival in its environment. Includes study of the digestive, circulatory, respiratory, sensory, and endocrine systems, plus specialized topics. Includes lab. *Prerequisites: BIO 261 Human Anatomy or BIO 264 Anatomy and Physiology I, and junior standing.*Corequisite: BIO 404L.

BIO 406 Molecular Genetics (4) (Even Springs)

Examines the molecular understanding of genes including gene structure and expression, structure and replication of DNA, organization of prokaryotic and eukaryotic genomes, the role of genes in the development in the generation of immune diversity, and the role of oncogenes in cancer. Includes lab.

Prerequisites: BIO 305 Principles of Genetics and junior standing.

Corequisite: BIO 406L.

BIO 440 Research in Biology and Chemistry (3)

See CHE 440.

BIO 458 Human Development (4) (Limited)

Introduces developmental biology using human embryology and development as a model. Topics include fertilization, cleavage, compaction, gastrulation, primary and embryonic fields, limb development, neurulation, the development of mesodermal derivatives, germ cell development and human stem cells. Includes lab.

Prerequisites: BIO 111 Introductory Biology I and junior standing.

Corequisite: BIO 458L.

BIO 472 Biological Chemistry I (5) (Even Falls)

Introduction to the chemistry of life. Topics include structure and function of lipids and membranes; amino acids and proteins; sugars and polysaccharides; mechanisms of enzyme action; carbohydrate metabolism; oxidative phosphorylation and photosynthesis; lipid metabolism. Includes lab. Cross listed CHE 472.

Prerequisite: CHE 201 Organic Chemistry I.

Corequisite: BIO/CHE 472L.

BIO 473 Biological Chemistry II (4) (Odd Springs)

Continuation of BIO 472. Topics include amino acid metabolism; hormonal regulation of metabolism; nucleotide metabolism; nucleic acid structure and function; DNA replication, transcription and translation; gene regulation; blood biochemistry; and hormone mechanism of action. Includes lab. Cross listed CHE 473.

Prerequisite: BIO/CHE 472 Biological Chemistry I.

Corequisite: BIO/CHE 473L.

BIO 480 Senior Seminar (2) (Fall)

Advanced studies in selected biological topics. Course design relates the concepts of biology to contemporary, historical, technological, societal, and ethical issues. Lectures, current journal readings, library research, student presentations, and discussion aid in developing inquiry techniques and critical thinking.

BUS (Business)

BUS 100, 200, 300, 400 Servant Leadership in Practice I, II, III, IV (1) (Limited)

Application of team building, communication and leadership skills through participation in outreach projects in the community. Examines servant leadership and acquisition of project management skills. Spring enrollees may participate in the Enactus Regional Competition where they present their projects to a panel of judges. Students enroll according to their class standing. Freshmen and sophomores will enroll in BUS 100 and BUS 200, respectively, and so on. Graded "S"/"U."

BUS 103 Introduction to the Business Environment (2) (Embedded H.S. Course)

An overview of the business environment, including the functional areas of a business and how they work together. Designed to be paired with a work-study program which allows students exposure within the workplace. Offered only as an embedded dual enrollment course at high schools.

BUS 107 Foundations of Leadership and Ethics (3) (Fall, Spring)

Examines the lives of great leaders, including biblical figures, through reading leadership literature and practicing leadership skills. The course especially benefits those going into business but will also be useful to all interested in being "critically involved in the affairs of the contemporary world." Business ethics is a key component of the course.

BUS 162 Business Computer Applications (1) (Fall, Spring)

Introduces business computer applications which include, but are not limited to, Excel and PowerPoint to enhance students' analytical and presentation skills.

BUS 232 Business Seminar (1) (Fall, Spring)

A seminar course to engage students on topics where Judeo-Christian values, the liberal arts, economics, and current events overlap to prepare students to operate from a biblical foundation in a largely secular business world.

BUS 271 Business Law I (3) (Fall, Spring)

Introduces the interrelationship of law and business with the intent of establishing a knowledge- and skill-base upon which students can build an understanding of our legal system and an ability to recognize and manage legal issues that arise in day-to-day business contexts. Examines the American legal system, the U.S. Constitution, litigation and alternative dispute resolution, jurisprudence, business ethics, relevant tort and criminal law, and contract law.

BUS 272 Solutions Seminar (1) (Limited)

Introduces leadership and management principles through reading and listening to the accounts of outstanding practitioners. Practical application and written report included.

BUS 301 Money and Banking (3)

See FIN 301.

BUS 325 Principles of Management (3) (Fall)

The general nature and functions of organization and management in society.

BUS 351 Statistics (3) (Fall)

Introduces statistics for business majors. Covers principles in descriptive and inferential statistics. Primary focus on integrating statistics into business problem-solving. Surveys strategies for problem-sensing, diagnosis, and decision making through careful collection, organization, and interpretation of appropriate data. Also covers research design: research process, research methodology, data collection and sampling techniques, and instrument design. *Prerequisites: MAT 101 College Algebra, MAT 104 Math for Liberal Arts, or 2 years of H.S. algebra with a "B" or better.*

BUS 354 Statistical Applications for Business (1) (Fall)

Explores statistical applications for business. Hands-on experience, conducting a satisfaction survey study that lends itself to the use of quantitative data analysis including but not limited to graphical presentation of data, comparison of population means, correlation, and regression analysis covered in an introductory statistics course.

BUS 371 Organizational Behavior Management (3)

See PSY 371.

BUS 372 Business Law II (3) (Even Springs)

Builds upon the foundation of Business Law I and covers the law of enterprise organization (primarily corporations, partnerships, LLCs and agency law). Several Uniform Commercial Code Articles (sales, negotiable instruments, secured transactions), personal property and bailments, and insurance.

Prerequisite: BUS 271 Business Law I.

BUS 403 Argument and Persuasion for Business (3) (Fall)

Focuses on argument (claims and support), persuasion (how and why individuals or groups are influenced to act or believe in a particular way) and negotiation (interest-based persuasion), as these topics pertain to business. Contexts for argumentation will include economics, finance, marketing, management, public relations, business ethics, business law, business and government relations, and strategic management.

BUS 424 Strategic Management (4) (Spring)

Capstone course. Examines the strategic planning and management process from the perspective of the top-level executive or consultant. Integrates and draws upon previously acquired business knowledge and management skills to apply to various business cases and projects. Also addresses ethics, leadership, marketing, management, organizational structure, finance, operations, social responsibility, competition, and government and international relations, as they affect strategic decision making at the corporate, business, and functional levels of the organization. *Prerequisites: BUS 325 Principles of Management, FIN 362 Principles of Finance, and MKT 221 Marketing Principles.*

BUS 426 Operations and Supply Chain Management (3) (Even Falls)

Introduces the challenges of complex production/operations systems and the array of contemporary tools currently employed to meet those challenges. Examines current theory and modeling techniques used by real organizations. *Prerequisite: junior standing.*

BUS 432 Human Resources Management and Supervision (3) (Spring)

Analyzes and applies principles and practices related to human resource planning, recruitment, selection, utilization, and labor relations. Special attention on the legal environment and management and human resources supervisory issues. Covers human resource management functions in organizations of various sizes.

BUS 435 Business and Government (3) (Spring)

Examines the relationship between business and government including a study of the U.S. Constitution and the basis for and the limits upon government regulation of business; the history and current impact of government policy on business through direct regulation such as antitrust law, consumer protection law, employment, safety, environmental, and civil rights regulation; the influence of government on business through indirect action such as foreign trade and foreign investment policy, fiscal and monetary policy, entitlement and defense spending and taxation; and strategic responses of business to these policies.

Prerequisites: BUS 271 Business Law I, BUS 403 Argument and Persuasion for Business and one ECN course.

BUS 472 Solutions Seminar (1) (Limited)

Examines leadership and management principles by reading and listening to the accounts of outstanding practitioners. Practical application and written report included.

CHE (Chemistry)

CHE 101 Introductory Chemistry (4) (Spring)

Introduces major and foundational aspects of chemistry as it applies to life and the universe. Includes lab. *Corequisite: CHE 101L.*

CHE 111 General Chemistry I (4) (Fall, Spring)

Survey of the fundamental principles of chemistry. Stoichiometry, atomic and molecular structure bonding, kinetic molecular theory, and elementary thermodynamics are discussed. Includes lab.

Prerequisite: "C" or better in MAT 101 College Algebra or SAT math test sub-score of 26.

Corequisite: CHE 111L.

CHE 112 General Chemistry II (4) (Spring)

A continuation of CHE 111 General Chemistry I. A study of the gas laws, chemical kinetics, equilibrium theory, acid-base chemistry, thermodynamics, and electrochemistry. Includes lab.

Prerequisite: CHE 111 General Chemistry I.

Corequisite: CHE 112L.

CHE 142 General Organic Biochemistry for Nurses (3) (Fall, Online in Spring)

Includes basics of general chemistry, organic chemistry, and biochemistry. Topics include ions, concentrations, reactivity, organic compounds (carbohydrates, starches, proteins, fats, nucleic acids), metabolism, nuclear chemistry, and actions of some medications with application to these concepts. Includes lab. "B-" required for nursing majors. *Corequisite: CHE 142L.*

CHE 173 Forensic Science (4) (Limited)

Meets the needs of criminal justice majors as well as exposing non-science majors with opportunities to see the relevance of chemistry, biology, geology, and physics to their chosen professional life. Topics include crime scenes, physical evidence, gunshot residue, fingerprints, toxicology, and serology. Provides an overview of techniques used by modern criminalistics labs. Includes hands-on opportunity to explore the intricacies of how criminal investigation relies on forensic science and how local law enforcement agencies' reliance on scientific studies for technical field work. Includes a lab in which the students will perform experiments that draw upon various sciences and a lab segment in which crime scenes will be fabricated to practice entry, exit, and collection and interpretation of evidence. *Corequisite: CHE 173L.*

CHE 201 Organic Chemistry I (4) (Fall)

Orbital hybridization, acid-base reactions, electron flow diagrams and functional group reactivity is tied together by organic chemistry mechanisms. Laboratory experience develops hands-on technique and supports classroom topics. *Prerequisite: CHE 111 General Chemistry I.*

Corequisite: CHE 201L.

CHE 202 Organic Chemistry II (4) (Spring)

A broadened application of mechanisms to new synthetic transformations. Modern spectroscopic techniques of NMR and IR are introduced to support the identification of new syntheses being learned. Includes lab that shifts focus from technique to application for synthesis of interesting molecular targets.

Prerequisite: CHE 201 Organic Chemistry I.

Corequisite: CHE 202L.

CHE 301 Analytical Chemistry (4) (Odd Springs)

Theory and practice of volumetric, gravimetric, spectrophotometric and electroanalytical methods of analysis. Lecture and laboratory incorporate a strong emphasis on spreadsheet applications in generation, collection and statistical analysis of data.

Prerequisite: CHE 202 Organic Chemistry II.

Corequisite: CHE 301L.

CHE 411 Physical Chemistry I (4) (Odd Falls)

Chemical kinetics and quantum mechanics. Application of quantum theory to the interpretation and analysis of rotational, vibrational and electronic spectra. Rigorous application of computer technology to generate, collect and/or analyze data in both lecture and laboratory.

Prerequisites: CHE 112 General Chemistry II, MAT 202 Calculus II, and PHY 202 General Physics II or PHY 212 Modern

University Physics II. Corequisite: CHE 411L.

CHE 412 Physical Chemistry II (4) (Even Springs)

A statistical, mechanical approach to the laws of thermodynamics using considerable computer technology to generate and analyze data. Includes Lab.

Prerequisites: CHE 112 General Chemistry II, MAT 202 Calculus II, and PHY 202 General Physic II or PHY 212 Modern

University Physics II. Corequisite: CHE 412L.

CHE 425 Instrumental Analysis (4) (Limited)

Advanced instrumental methods of chemical analysis and their application to the study of chemical reactions, spectral, electrometric and physio-chemical methods. Includes lab.

Prerequisite: CHE 301 Analytical Chemistry.

CHE 440 Research in Biology and Chemistry (3) (Fall)

A thorough introduction to aspects of STEM-based research. Focuses on topics in chemical, biological, and biochemical research. Set-up, design, control, and optimization of experimental protocols. Data acquisition and analysis. Statistical methods. Communication of the results through a variety of media. Cross listed BIO 440. *Prerequisite: CHE 111 General Chemistry or BIO 111 Introductory Biology I*

CHE 472 Biological Chemistry I (5)

See BIO 472.

CHE 473 Biological Chemistry II (4)

See BIO 473.

CHE 490 Chemistry Honors (4) (Application Required)

See Courses for All Disciplines. Thesis is required.

CMI (Christian Ministry)

CMI 127 Exploring Ministry (2) (Spring)

Explores the meaning of Christian life as ministry, as well as varied areas of special ministry in modern society.

CMI 222 Introduction to Missions (3) (Limited)

Explores the biblical basis and history of the expansion of Christianity throughout the world based on the perspectives of the World Christian Movement.

CMI 230 Women in Ministry (3) (Limited)

A study of the biblical, theological, historical, cultural, and practical issues concerning the vital role of women as professional ministers and clergy in the Christian church. Deals both with foundational concepts such as ministerial call and with practical matters such as the essential place and contribution of women in the professional ministry of the contemporary and future church. Prepares both women and men will serve as ministry colleagues.

CMI 310 Communication in Ministry (3) (Even Springs)

Explores creative methods of communicating biblical and spiritual truth to contemporary culture. The student will study current trends in ministry communication, communication to different learning modalities, and effective teaching techniques that will help audiences learn and respond to the Christian message. The student will develop a variety of abilities in the formulation, communication, and evaluation of the Christian message for contemporary audiences and persons. Particular attention will be given to resources for communicating to adolescents.

CMI 316 Church Planting/Growth (3) (Even Springs)

A study of the theology, theory and practices of church planting and church growth. Includes biblical and anthropological principles of both as well as strategies for multiplication and growth of local congregations.

CMI 361 Christian Spirituality and Formation (3) (Even Falls)

Cultivates an inclusive concept of Christian discipleship, exploring the range of topics form personal piety to social responsibility. Surveys the theological foundations and practical implications of the Christian disciplines of prayer, Scripture study, fellowship, witness and lifestyle. Emphasis on the developmental process from Christian conversion to redemptive involvement in the life of the world. Substitutes for COR 300 for majors in the Department of Theology.

CMI 375/475 Supervised Ministry (1) (Fall, Spring)

Offers a bridge from the theory of the classroom to the practice of doing ministry. Students are expected to find a placement in a local ministry where they serve regularly throughout the semester. Students will also gather biweekly to debrief their experience and share concerns and practical challenges of ministry as they work to relate their classroom content to their service experience. Supervised Ministry is one credit for each semester of participation. Each major in the theology department has a particular requirement for semesters of participation. Repeatable.

CMI 401 Biblical Theology of Mission (3) (Odd Falls)

A seminar course. Incorporates the study of biblical descriptions of mission and the implications for understanding and practice of evangelism and Christian missions and a brief overview of scholarly debate regarding Christian missions. Focus on the thematic and textual study of key expressions of the mission of God in the Old and New Testaments. Studies Scripture related to God as a missionary God, the Bible as the product of the mission of God, the church as a people for the mission of God, and the world as the arena for the mission of God.

CMI 410 Foundations and Practices in Ministry (3) (Odd Springs)

Integrates theological reflection with the practical matters of leading and serving in ministry using Jesus and Classic Tradition as the models for ministry. Explores practical ministry issues such as the call to ministry, ordination, the pastoral office, worship leading, preaching, teaching, administration, pastoral care, and compassionate ministries. Focuses on the ministerial practices of baptism, Eucharist, wedding and funeral officiant, etc.

CMI 422 Counseling in Ministry (3) (Limited)

Explores basic skills needed interact with various human needs encountered in ministry. Includes basic counseling theories and applied techniques/methods essential in the general Christian counseling. Focuses on needs of the

general population rather than clinical therapy, such as pre-marriage/marriage issues, age-related adjustments, sexual issues, interpersonal conflicts, suffering and death, community resources, and professional referrals.

Prerequisites: PSY 100 Introduction to Psychology and junior standing.

COM (Communication)

COM 100 Introduction to Communication (3) (Fall)

Study and application of basic concepts in communication. Main focus is on learning how to communicate more effectively interpersonally and in small groups.

COM 110 Communication Technology (3) (Fall, Spring)

Introduces basic design principles and content management skills using industry-standard design tools including WordPress, Adobe InDesign, and Adobe Photoshop. Introduces basic audio and video-editing techniques using Adobe Premiere Pro and Adobe Audition. Application of design and project management skills to a semester-long project. Students archive coursework in a portfolio that they will continue to maintain and as a tool for academic reflection and professionalism. The course fee covers a one-year subscription to the Adobe Creative Suite.

COM 212 Rhetoric (3) (Fall)

Theory, research, organization, preparation, and practice of speaking and writing. Explores ethical implications of narrative, informative, and persuasive techniques in the context of historical and current principles of rhetoric. Required for all majors in the Communication and Media Department.

Prerequisite: COM 100 Introduction to Communication.

COM 214 Communication Theory (2) (Fall)

Examines selected theories of communication and message design, to include models, critical analysis, and development of a Christian worldview of communication.

COM 232 Readings in Rhetoric (1) (Limited)

Introduces persuasive events from a critical perspective, providing an analytical framework for examining the impact of the persuasive event and the potential power of communication for effective and thoughtful communication.

COM 301 Communication, Spirituality, and Service (3) (Even Falls)

Explores the intersection between communication and Christianity in relation to redemptive service to others in today's world. Examines connections among communication concepts and biblically-informed spiritual principles and practices for affecting personal, local, and global change. Surveys issues of faith and justice in the context of fostering the biblical concept of "Shalom" in the world. A service project is required as part of this course.

COM 312 Design Tools: InDesign (1) (Interims)

Focuses on the development of print layout and compositing skills, manipulating type and images, using Adobe InDesign, the industry leading software for page layout construction, and desktop publishing. Must have access to Adobe InDesign Software.

COM 313 Design Tools: PhotoShop (1) (Interims)

Includes an overview of Photoshop interface, features, and editing capabilities of the software Adobe Photoshop. Access to Adobe Photoshop is required.

COM 317 Digital Influence (1) (Fall)

Introduces practical social media skills, digital spaces, best practices, and the use of a variety of social media technologies for developing social media influence. Students will engage in a long-term project to identify a platform, connect with experts, create and propagate content, establish their own credibility, and build access to a large audience to understand and experience the journey of social media influencers. May be repeated.

COM 324 Web Content and Management (3) (Spring)

Explores web-based innovations in media production and distribution. Students examine content quality and management issues with opportunities to create and evaluate web media. Addresses the social and ethical implications of search and web-based collaboration and marketing.

COM 330 Genre (1-3) (Limited)

Style, form, and content of varying communication media. Focuses on a single, limited aspect of the topic being considered.

COM 354 Applied Social Media (3) (Spring Online)

Explores all aspects of social media communication. Students develop a strategic mindset and explore creative and scientific approaches for creating, curating, and managing content. Topics explored: analysis, audience, branding, ethics, measurement, planning, writing, qualifications and more. Assigned activities lead students to achieve Hootsuite Social Media Certification (\$300 value) at the end of the course.

COM 368 Intercultural Communication (3) (Spring)

Theory, skills, and attitudes foundational to effective interpersonal communication with persons of other cultures and co-cultures. Focus is on critical analysis of various aspects of intercultural communication, as well as on building empathy and coping skills.

Prerequisite: sophomore standing.

COM 399 Communication Portfolio (1) (Limited)

Portfolio compilation of projects to demonstrate analysis and application of communication and visual principles. Prerequisites: COM 214 Communication Theory, WRT 216 Writing for the Media, and senior standing.

COM 404 Persuasion (3) (Spring)

Focuses on the theory and practice of persuasive messages. Specific emphasis on learning to influence others ethically, effectively, and responsibly through public speaking and digital contexts.

Prerequisite: SPE 100 Oral Communication or SPE 212 Fundamentals of Speech or COM 212 Rhetoric.

COM 415 Design Thinking (3) (Fall)

Students will envision, explain, and evaluate innovative and simple solutions to a wide range of human problems. Students will explore user-centered research, ideation, prototyping, and testing. Students will work as a member of a team with shared goals through specific problems within the framework of realistic constraints.

Prerequisite: junior standing.

COM 416 Principles and Practices of Freelancing (3) (Odd Springs)

Explores brand development and starting a successful freelance career using writing, design, artistic, or technical skills.

COM 480 Senior Seminar (1) (Fall)

Capstone Course. Focuses on career planning and personal growth. Students will prepare and present a professional portfolio, prepare for professional interviews, and explore the biblically-informed nature of vocation including personal gifting. The course includes a weekend retreat at Camp Michindoh in early October. *Prerequisite: senior standing.*

COR (Community of Learners Core)

COR 100 Life in Community (2) (Fall, Spring)

Welcomes students to university life; investigates what it means to be members in the SAU community, distinguished by a commitment to Christ as the perspective for learning; and explores the study and application of the liberal arts as the fullest way of knowing and critical participation in the contemporary world. Waived with 26 or more post-high school transfer college credit.

COR 110 Christ and the University Experience (3) (Online)

Introduces students to the life and philosophy of Spring Arbor University, The Concept, the process of becoming an

educated person with the objectives. Assists student in discovering themselves as persons through development of the academic and social skills needed to be successful in their various environments. Course activities emphasize general intellectual skills (writing and speaking) and social and relational skills (interpersonal communication). Waived with 26 or more post-high school transfer college credit.

COR 200 Christ, Culture, and Diversity (2) (Fall, Spring)

Explores the virtues of compassion, hope, and justice within the context of local communities. Students engage in questions of local import – be it urban, suburban, or rural – and investigate what it means to love in place and with responsibility. Includes an experiential weekend. Waived with 58 or more post-high school transfer college credit. *Prerequisite: sophomore standing.*

COR 300 Christian Faith and Community (2) (Fall, Spring)

Invites students to practice the virtues of memory, gratitude, and faith within the context of the communion of saints, as the Apostle's Creed reminds believers that they are members of a community that spans the Early Church and those who will come in the future. Students will explore Christian tradition, practices, and doctrines in terms of community living, spiritual formation, and the SAU Statement of Faith.

COR 310 Christian Faith and Scripture (3) (Online)

Reflects the commitment of Spring Arbor University as a Christian liberal arts university to nurture an appreciation for the rich resources of Scripture for creative personal faith and life in the modern world. Designed to foster knowledge and understanding of the literature and history of the Bible and the integration of faith, living, and learning.

COR 320 Christian Life and Thought (3) (Online)

Explores the Christian tradition, its practices, and its doctrines in terms of community living, spiritual formation, and the SAU Statement of Faith. Students will also consider their vocation, worldview, and ethical responsibilities from the perspective of the SAU Concept. Waived with 58 or more post-high school transfer college credit.

COR 374 Preparing for Cross Cultural Study (1) (Fall, Spring)

Prepares students to gain an understanding of basic cross-cultural theory, adaptation skills, knowledge of the host culture, and basic conversational skills in the language of the host culture. Sections of this course are destination specific. Waived with 58 or more post-high school transfer college credit.

COR 375 Cross Cultural Studies (3) (Interim, Summer)

A distinctive SAU course. Challenges students to practice the virtues of empathy, humility, resilience, justice, and compassion through an immersive cross-cultural experience. Invites students to enrich their traditional liberal arts courses while gaining first-hand knowledge of a different culture through family, economics, educational systems, government, and religion. Students develop cross-cultural analytical skills needed to describe the intimately connected world and confront the spiritual truth that "neighbor" includes peoples who may not live geographically near them. Waived with 58 or more post-high school transfer college credit.

Prerequisite: COR 374 Preparing for Cross Cultural Studies.

COR 400 Christian Life and Vocation (2) (Fall, Interim, Spring)

Asks students to reflect upon their time at SAU and to imagine how the virtues of integrity, service, thankfulness, and wisdom woven throughout their education have prepared them for community to come.

Prerequisites: COR 375 Cross Cultural Studies, COR 300 Christian Faith and Community, senior standing.

COR 410 Christian Perspectives on Cultural Diversity (3) (Online)

Explores virtues of compassion, hope, and justice within a variety of cultural, social, political, and global contexts. An emphasis is placed upon how Christian individuals and communities might think about and engage matters of public importance, ranging from immigration and human trafficking to poverty, racism, and war.

COR 474 Preparing for Cross Cultural Studies-Advanced (1) (Application Required)

Prepares students to gain an understanding of basic cross-cultural theory, adaptation skills, and basic conversational skills in the language of and knowledge of the host culture. Sections of this course are destination specific. *Prerequisite: permission of the Cross Cultural Studies office.*

COR 475 Cross Cultural Studies-Advanced (3) (Application Required)

Offers a variety of study options in several foreign countries. Students fulfill all of the same course assessments, experiences, and activities as 375 with an added research project related to the course objectives or an issue that can be explored and researched at a deeper level than would typically be required in COR 375. The research project must be approved by the lead instructor. Opportunities for longer term options are available.

CPS (Computer Science)

CPS 105 Introduction to Linux (1) (Fall)

Linux coding methods and applications.

CPS 150 Introduction to Computers (3) (Limited)

Introduces computer hardware and software including major components such as CPU, memory, input, output, secondary storage, communications, selection of computer equipment, and the social implications of computer technology. Includes lab application of productivity tools, such as word-processing, spreadsheets, presentation, database software, as well as the Internet, email, and web page creation. Does not count toward major or minor.

CPS 201 Coding I (4) (Fall)

Examines approaches to computing solutions for problems in multiple subject areas. Emphasis on efficient algorithm design and program structure. Introduces data structures, software engineering, and object-oriented programming in Python. Includes lab.

CPS 202 Coding II (4) (Spring)

Emphasizes object-oriented programming in Java. Additional topics include source code versioning, unit testing, and code refactoring. Includes lab.

CPS 203 Web Design and Development (3) (Spring)

Explores how to deliver interactive webpages through a web browser, develop single page applications, represent the data structurally with HTML, design the presentation with CSS, and use open-source design frameworks. Introduces basic concepts of UX, networking, Internet Protocols, DNS, URL, and web services. Explores modern web technologies including HTML5, CSS3, DOM manipulation, responsive and adaptive design, JavaScript front-end frameworks (e.g., VUE and React), design patterns, search engine optimization, typography, etc.

Prerequisite: CPS 202 Coding II.

CPS 206 Geographic Information Systems (4) (Odd Springs)

Covers the fundamentals of Geographic Information Systems (GIS) and geospatial data analysis. Focuses on the use of geographic information systems in urban/suburban/metropolitan environments. Introduces basic GIS concepts and GIS tools. Frames spatial research questions which students implement in a project applied to their area of interest. *Prerequisite: CPS 201 Coding I or high school computer applications course.*

CPS 232 Proof and Discrete Structures (3)

See MAT 232.

CPS 301 Data Structures and Algorithms (3) (Fall)

Examines major structures used for data storage and processing, including arrays, lists, stacks, queues, graphs, and trees. Algorithms for searching, sorting, and updating structures are developed and analyzed. Individual and group hands-on experience with larger software systems through developing and modifying larger programs.

Prerequisite: CPS 202 Coding II.

CPS 302 Architecture, Applications, and Languages (4) (Odd Falls)

Emphasizes the variety of levels from which the disciplines of computing can be viewed: levels of architecture through the introduction of finite automata, digital logic, and microprogramming; levels of languages through an examination of sequence control, type checking, runtime storage management, and nonprocedural programming paradigms; and levels of applications through a general introduction to the areas of database systems and artificial intelligence. *Prerequisite: CPS 202 Coding II.*

CPS 303 Data Management (3) (Even Falls)

A study of contemporary models and methodologies for representing, storing, and retrieving large quantities of information stored on external devices including virtual storage.

Prerequisite: CPS 202 Coding II.

CPS 307 Mobile Application Programming (3) (Fall)

Study and application of the concepts, principles, tools, and constraints related to developing mobile applications. Students will develop and deploy mobile applications, and as a result, gain significant experience using current software development tools, asynchronous programming techniques, and common design patterns.

Prerequisite: CPS 202 Coding II.

CPS 310 Operating Systems (3) (Even Springs)

Focuses on the operating system. Includes topics such as process management, device management, and memory management. Examines the executive monitor and utilities and their interrelationship. It is advisable for students to complete CPS 202 Coding II prior to this course for adequate prerequisite knowledge needed for course success.

CPS 311 Data Communications and Networking (3) (Even Springs)

Introduces students to several network protocols; industry communications standards; physical and architectural elements and information layers of a communication network; diagnostic, design, operational, and performance measurement tools; and network security, reliability, and maintenance. Hands-on experience with network installation. It is advisable for students to complete CPS 202 Coding II prior to this course to gain prerequisite knowledge needed for course success.

CPS 312 Collaborative IT Project (1) (Interim)

A collaborative, open-ended software development project or experimental laboratory project, solving a real-life problem or contributing to the community. Project depends on student and faculty interest. Repeatable up to 3 times.

CPS 313 Computer Systems Security (3) (Odd Springs)

Introduces fundamental concepts of computer systems security access including the threat environment, corporate security policy, cryptography, network security access control, firewall architecture, host hardening, application security, data security, and business continuity. Examines security concepts through case studies. It is advisable for students to complete CPS 202 Coding II prior to this course to gain prerequisite knowledge needed for course success.

CPS 314 Operating Systems and Cloud Computing (2) (Spring)

A study of the design considerations of computer operating systems and their interaction with hardware features. Introduces public cloud infrastructure to build technology solutions using virtual servers, cloud-based database services, software defined infrastructure, cloud-based utility services and serverless computing. *Prerequisite: CPS 202 Coding II.*

CPS 315 Web Services, API and Data Services (3) (Spring)

Explores development and management of a complete web application in a modern web server architecture. Introduces server side-programming languages to build and use web services. Includes web security, database server, web design patterns, social network integration, XML, JSON, Web server administration and virtualization. *Prerequisite: CPS 202 Coding II.*

CPS 318 Introduction to Data Science (3) (Fall)

Examines the use of industry tools/technologies and statistical techniques to solve complex data science processes, such as statistical inference, data analysis, and visualization.

Prerequisite: CPS 202 Coding II.

CPS 320 Topics in Expert Systems (1) (Odd Springs)

Surveys key concepts of artificial intelligence with a focus on expert systems. Introduces the theoretical basis of expert systems including knowledge representation, logic, and inference, and the differences between imperative and functional programming languages with hands-on experience with an expert systems tool.

Prerequisite: CPS 202 Coding II.

CPS 331 Software Development Project (3) (Odd Springs)

Students apply systems analysis concepts as they develop a system based on a real-life problem. Students gain experience working with a customer and strengthen their collaboration skills as they work in teams. *Prerequisite: CPS 429 Systems Analysis and Design I.*

CPS 361 Foundations of Linux for Cybersecurity (3) (Online)

Linux, a web-based server for file and storage management uses open source coding of the kernel, command-line utilities, shell environments, system configurations, processes, control of networks, devices, and access control features for many online transactions to maintain protection from cybersecurity attacks.

CPS 362 Ethical Hacking Tools and Techniques (3) (Online)

Introduces hacking techniques and tools including sniffers, DoS, Hijackings, IDS, Firewalls, honeypots validate the varied attacks on networks. Cracking encryption, mobile devices, cloud computing, IoT, cryptology, and PKI Infrastructure requires cryptanalysis and cryptographic cybersecurity attack countermeasures.

Prerequisite: CPS 361 Foundations of Linux for Cybersecurity

CPS 363 Security and Management Controls (3) (Online)

Focus on managing settings and configurations and the application of security and management controls to differing operating systems. Addresses effective communication, listening, analysis, and interaction skills with stakeholders.

CPS 364 Cyber Threats, Analysis, and Response (3) (Online)

Examines penetration multi-processes, social and physical security, reconnaissance scanning and enumeration countermeasures with enhanced vulnerability assessments - as related to system hacking measures. Covert hacking methods while maintaining access with escalation will expose the means of covering their tracks.

Prerequisite: CPS 361 Foundations of Linux for Cybersecurity

CPS 366 Network Performance and Security (3) (Online)

The application of GUI simulations, cybersecurity tools, Cisco Web functions, command line interfaces, and wireless standards for securing network architecture. Addresses cloud activity management for effective network control.

CPS 403 Information Assurance and Security (3) (Fall)

Covers cyber operations and best practices for securing technology infrastructures, protecting digital assets, and minimizing related risks. Includes basic security concepts, security policy, access control, authentication and key control, cryptography, offensive cyber operations, cyber-related legal precedents and regulations, wired and wireless network security, and intrusion detection and prevention systems.

Prerequisite: CPS 202 Coding II.

CPS 404 IT Service Management (3) (Spring)

Reviews best practice models for delivering IT Services to manage risk, strengthen customer service, and establish cost-effective services. Includes the review of activities performed by an organization to design, plan, deliver, operate, and control information technology services offered to customers.

Prerequisite: CPS 202 Coding II.

CPS 410 Algorithms and Formal Language (3) (Odd Falls)

Studies formal models of computation such as finite state automata, pushdown automata, and Turing machines, along with the corresponding elements of formal languages. Uses models to provide a mathematical basis for the study of computability. Church's thesis and the universal Turing machine led to the study of undecidable problems. *Prerequisites: MAT 232 Proof and Discrete Structures and junior status.*

CPS 429 Systems Analysis and Design I (3) (Fall)

Introduces systems development methodologies. Emphasis on the systems development life cycle: planning, analysis, design, implementation, testing, operation, and support. Application of systems analysis concepts using case studies. *Prerequisite: CPS 202 Coding II.*

CPS 431 IT Systems Analysis and Design II (3) (Odd Spring)

Capstone course in which students apply system analysis and design concepts from CPS 429. Students gain system development experiences from working with real customers and strengthen collaboration skills as they work in teams. *Prerequisite: CPS 429 IT Systems Analysis and Design I.*

CRJ (Criminal Justice)

CRJ 201 Crime, Corrections, and Criminal Justice (3) (Fall)

Introduces the criminal justice systemincluding an overview of criminological theory. Examines current theories, practices, and careers in criminal justice. Cross listed SOC 201.

CRJ 217 Criminal Justice Exploratory (1) (Fall)

Exposes students to careers in criminal justice and minimum requirements (fitness, exam scores, etc.) for various careers in criminal justice. Should be taken concurrently with CRJ 201 Crime, Corrections, and Criminal Justice.

CRJ 253 Forensic Psychology (3)

See PSY 253.

CRJ 301 Criminological Theory (3) (Even Falls)

An overview of biological, sociological, psychological, and cultural theories of crime causation. Includes a brief history of criminological theory with special emphasis on social process, structure, and conflict theories. Cross listed SOC 301. Prerequisites: CRJ 201 Crime, Corrections, and Criminal Justice, PSY 100 Introduction to Psychology, and SOC 101 Introduction to Sociology.

CRJ 302 Comparative Criminal Justice Systems (3) (Odd Springs)

Basic overview of political, administrative, organizational, and cultural differences in various state and national criminal justice systems.

CRJ 342 Criminal Law and Court Procedures (3) (Odd Springs)

Introduces criminal law and procedures, the roles of prosecution and defense attorneys, court procedures and decision-making processes, rules of evidence, prosecutorial and judicial discretion, and sentencing guidelines.

CRJ 344 Juvenile Delinquency (3) (Even Springs)

Introduces causes, incidence, and the history of juvenile delinquency in the United States. Topics include gangs, substance abuse, and runaways. Explores criminal justice policies and programs focused on juveniles.

CRJ 447 Criminal Justice Policy (3) (Odd Falls)

Focuses on criminal justice policies by emphasizing evidence-based policy analysis. Students will apply knowledge gained from criminological theory and research design to critically analyze and evaluate criminal justice policies. *Prerequisite: CRJ 301 Criminological Theory*

CRJ 449 Restorative Justice (3) (Even Springs)

Explores basic principles of restorative justice and specific programs focused on redemptive practices in criminal justice including restitution programs, victim-offender reconciliation programs, and alternatives to incarceration. Students will actively explore principles of the Christian faith and how they inform criminal justice policies. *Prerequisite: CRJ 301 Criminological Theory.*

ECE (Early Childhood Education)

ECE 265 Social Foundations of Early Childhood Education (3) (Spring)

Provides comprehensive coverage of the complex socialization process and its effect on the development of children. Requires students to research personal socialization histories and evaluate their development in light of major concepts presented in class. "C" or better required.

Prerequisites: EDU 140L Professional Skills Lab and "B-" or better in EDU 140 Exploring Critical Skills for the Professional Educator.

ECE 266 Early Child Growth and Development (3) (Fall)

Focuses on the prenatal stages of human development through age eight. Students will study normal and exceptional development of the physical, cognitive, emotional, and social domains of young children in the contexts of home and group settings. Field assignments: two hours a week. Individually arranged with instructor. "C" or better required. Prerequisite: PSY 100 Introduction to Psychology, EDU 140L Professional Skills Lab, and "B-" or better in EDU 140 Exploring Critical Skills for the Professional Educator.

Corequisite: EDU 267 Early Adolescent Development.

ECE 320 Assessment, Guidance and Discipline in Early Childhood Education (2) (Spring)

Focuses on assessing young children's development and the use of appropriate assessment practices in the ECE environment. Examines best practices in assessment and guidance of infants, toddlers, and PK through grade 3 through research of contemporary theory and methodology. In a systematic observation experience, students determine the most appropriate method and develop strategies and practices to guide children's behavior and direct children toward appropriate self-directed behavior as individuals and in group settings. "C" or better required. Prerequisites: ECE 266 Early Child Growth and Development, "B-" or better in EDU 140 Exploring Critical Skills for the Professional Educator and EDU 140L Professional Skills Lab.

ECE 340 Emergent and Beginning Literacy (3) (Spring)

Explores theories and research in emergent literacy, beginning reading, phonics instruction, and spelling. Compares historical perspectives on language acquisition, beginning reading and writing, the interrelationship of reading, writing, listening, and various stages of reading, writing, and spelling development using assorted children's literature, poetry, drama, and storytelling. Field experiences include observing, interviewing, assessing language needs, and providing targeted strategies for book creation with individual students. "C" or better required. Cross listed RDG 340. Prerequisites: SOE admission, "C" or better in EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development and EDU 267 Early Adolescent Development.

ECE 360 Assessing Software (1) (Spring Online)

Students identify and analyze the usefulness of various technologies and how they affect children. Students will investigate and interact with technologies to learn how to use children's software, promote children's inquiry, and connect and integrate a variety of software and technologies into children's learning. "C" or better required. *Prerequisite: ECE 266 Early Child Growth and Development.*

ECE 361 Motor Development and Motor Learning (2) (Fall)

Examines the stages of motor development with observation and analysis in laboratory setting. Includes exploration of developmentally appropriate instructional activities for skill learning in early childhood. "C" or better required. Prerequisite: PSY 100 Introduction to Psychology, EDU 140L Professional Skills Lab, and "B-" or better in EDU 140 Exploring Critical Skills for the Professional Educator.

ECE 365 Curriculum and Methods of Early Childhood Education (4) (Fall)

For teaching in a preschool or early elementary program. Covers basic curricular areas in preschool and early elementary grades. Emphasis on methods and techniques. Requires two clock hours weekly in a site approved by the instructor. "B-" or better required.

Prerequisites: SOE admission, ECE 266 Early Child Growth and Development, and EDU 267 Early Adolescent Development.

ECE 368 Young Children with Special Needs (3) (Fall)

Introduces characteristics of young children (birth to eight years) displaying special needs and techniques for nurturing their development and interacting with parents. Includes practice in observation and interaction, introduction to initial screening procedures and service provisions, planning, and implementation of appropriate activities. Off-campus site visits required. "C" or better required.

Prerequisites: ECE 266 Early Child Growth and Development and EDU 267 Early Adolescent Development.

ECE 378 Assessment and Intervention Strategies in Early Childhood Education (3) (Spring)

Explores theories and implications of formal assessment in early childhood, procedures for initiating and developing formal reporting assessment documents such as IEP, IAP, IFSP, and essential dispositions and skills to develop positive,

respectful relationships with children and caregivers when discussing assessment results. Includes creating and practicing strategies to remediate diagnosed special needs at the appropriate age and developmental level, creating an appropriate transition plan, and exploring the role of technology in providing services for students. "C" or better. *Prerequisites: SOE admission and ECE 368 Young Children with Special Needs.*

ECE 416 Early Childhood Policy and Standards (2) (Spring)

Focuses on policies and regulations specific to early childhood care and educational settings. Covers effective guidance of young children, from birth through age 8, as individuals and within group settings; government regulations for early childhood programs and personnel; and ethical standards for certification of ECE professionals. To be taken the semester preceding the professional student teaching semester. "C" or better required. Prerequisites: SOE admission, ECE 265 Social Foundations of Early Childhood Education, ECE 365 Curriculum and Methods of Early Childhood Education, senior standing.

ECE 430 Seminar in Teaching Early Childhood (1) (Online)

Concurrent with student teaching (ECE 450). Covers pertinent topics concerning ECE issues, such as classroom management, professionalism, and collaboration with stakeholders. Discussion and feedback on the directed teaching experience. Students seeking early elementary endorsement also take EDU 430E (3). "B-" or better required.

Prerequisites: satisfactory completion of all required ECE courses, approval to student teach.

ECE 450 Directed Teaching - Early Childhood (5) (Fall, Spring)

Mentored early childhood teaching experience to complement a successful elementary placement. Provides observation and management of the classroom and learning activities of young children. The student assumes increasing responsibility for directing the classroom. Graded "S"/"U."

Prerequisites: SOE admission, satisfactory completion of required EDU courses, approval to student teach.

ECN (Economics)

ECN 101 Introduction to Economics (3) (Odd Springs; Fall and Spring Online)

Surveys basic principles of economics and the leading schools of thought in the Western world—classical, Austrian, and Keynesian contemporary—with implications for modern life and political policy.

ECN 221 Introduction to Microeconomics (3) (Fall)

Introduces microeconomics and the influences that determine prices, functions of prices in a free market economy, distributions of income, and various market structures.

ECN 222 Introduction to Macroeconomics (3) (Spring)

Introduces macroeconomics and the American economy. Includes organizational and functional aspects of American capitalism; the money and banking system; factors that determine aggregate employment, production, and income; and fiscal and monetary policies.

Prerequisite: ECN 221 Introduction to Microeconomics or instructor approval.

ECN 268 Personal Finance (3)

See FIN 268.

ECN 301 Money and Banking (3) (Even Springs)

See FIN 301.

ECN 306 Macroeconomic Applications for Managers (3) (Sites, Online)

Students analysis to analytically synthesize how various macroeconomic course topics effect the student's place of employment or other organization. Topics include growth, inflation, interest rates, monetary and fiscal policies, and international economic issues. A case study approach will be used to help students with application.

ECN 322 Globalization: International Economics in the Information Age (3) (Odd Falls)

Surveys the principles, regimes, and dynamics of the international economy looking at productive factors, trade, financial payments, regulatory mechanisms, and international challenges in the information age. Cross listed POL 322.

EDU (Education)

EDU 140 Exploring Critical Skills for the Professional Educator (3) (Fall, Spring)

Identifies essential skills and dispositions necessary to become an effective teacher. Includes practical opportunities in an educational context to develop the skills of critical thinking, human interaction, organization, reading, writing, and speaking. Emphasizes the SOE's expectations and processes. Requires field experience at all certification levels. "B-" or better to advance to Professional Skills Lab (PSL) and other EDU courses. Must be taken at SAU.

Prerequisite: "B-" or better in ENG 104 College Writing or SAT evidence-based reading and writing score of 480. Corequisite: EDU 140L Professional Skills Lab.

EDU 140L Professional Skills Lab (PSL) (0) (Fall, Spring)

Serves as an interview process where the SOE evaluates teacher candidate skills and dispositions: critical thinking, human interaction, reading, writing, and speaking. Successful completion of the PSL precedes and supports advancement to other EDU courses and an invitation to apply to the SOE. Students who unsuccessfully complete the PSL may be provided the opportunity to develop a professional improvement plan with individual mentoring to facilitate skill remediation. Successful completion allows advancement to the teacher preparation program. An additional PSL may be required to demonstrate proficiency in an area previously deemed unsatisfactory.

EDU 201 Teaching Elementary Health and Physical Education (2)

See HPR 201.

EDU 202 Issues and Trends in American Education (2) (Fall, Spring)

Examines historical and contemporary educational ideas, including how unique legal, religious, cultural, and diversity issues have shaped education in the United States. Philosophical foundations ofschools as instruments of national purpose, values, and social change are studied, and students begin to develop their own philosophy of education. Important educators and topics such as school governance, finance, curriculum standards and accountability, and professional learning communities are also addressed. "B-" or better is required to advance in the SOE. Prerequisites: "B-" or better in EDU 140 Exploring Critical Skills for the Professional Educator and EDU 140L.

EDU 230 Educational Psychology (3) (Fall, Spring)

Explores concepts about how students learn, to understand and apply general principles of instruction, classroom management, and assessment to increase student learning. Reviews major developmental and learning theories from the framework of educational psychology. Introduces taxonomies of educational objectives along with unit- and lesson-planning frameworks. Provides skill development and practical application activities to implement instructional approaches and strategies for integrating technology into planned lessons.

Prerequisites: "B-" or better in EDU 140 Exploring Critical Skills for the Professional Educator and EDU 140L.

EDU 242 Psychology Applied to Teaching and Learning (2) (Teach out 2022-2023)

Explores concepts about how students learn, to understand and apply general principles of instruction, classroom management, and assessment to increase student learning. Reviews major developmental and learning theories from the framework of educational psychology. Introduces taxonomies of educational objectives along with unit- and lesson-planning frameworks. Provides skill development and practical application activities to implement instructional approaches and strategies for integrating technology into planned lessons. ECE students take ECE 266 Early Child Growth and Development and EDU 267 Early Adolescent Development in place of this course. "C" or better required. *Prerequisite: "B-" in EDU 140 Exploring Critical Skills and EDU 140L, and "C" in PSY 100 Introduction to Psychology.*

EDU 252 Teaching the Arts in the Elementary Classroom (1) (Fall, Spring)

Lab course to support ART 152 Art Foundations and MUS 152 Music Foundations to ensure that candidates know that all students can obtain the knowledge and skills that make up the arts. "C" or better required.

Prerequisite or Corequisite: ART 152 Art Foundations, MUS 152 Music Foundations.

EDU 267 Early Adolescent Development (1) (Fall)

Focuses on the development of children ages 9-13 and their physical, cognitive, emotional, and social development, and techniques to sustain them in attaining their potential. Required field assignment - two clock hours weekly, individually arranged. "C" or better required.

Prerequisite: EDU 140L Professional Skills Lab, "C" or better in PSY 100 Introduction to Psychology.

Corequisite: ECE 266 Early Child Growth and Development.

EDU 271 The Diverse Learner (4) (Interim)

Focuses on a wide variety of diversities found in today's schools such as race, ethnicity, culture, religion, family, socioeconomic, and gender, as well as physical and intellectual diversities and English Language Learners (ELLs). Special emphasis on the teacher's role in creating an inclusive learning environment, including the use of IEPs. Includes off-campus field experience with diverse student populations. Must enroll in EDU 271L.

Prerequisites: "B-" in EDU 140 Exploring Critical Skills for the Professional Educator and EDU 140L, sophomore standing.

EDU 273 Diversity Issues for Educators (2) (Interim)

Focuses on diversities represented in American schools such as race, ethnicity, culture, religion, family, socioeconomic status, gender, ELL/ESL, and others. Focuses on the teacher's role and responsibility in maximizing learning for all students affected by or influenced by any of these factors. Requires at least 10 off-campus approved field experience hours in a diverse setting. Taken by special education majors in place of EDU 271. "C" or better required. *Prerequisite: "B-" or better in EDU 140 Exploring Critical Skills for the Professional Educator and EDU 140L*.

EDU 319 Methods and Materials for Teaching Music in the Elementary School (2)

See MUS 319.

EDU 321 Teaching Reading and Language Arts in Primary Grades (3) (Fall, Spring)

Integrated reading/language arts methods resources course. Prepares teachers to create and implement effective literacy learning experiences in the primary grades. Students explore and practice methods and strategies, examine materials, participate in active discussions, collaborate with peers, and reflect on classroom observations, culminating in the creation of an interdisciplinary, standards-based thematic unit. Focuses on individual, small group, and whole group literacy instruction; 20 hours of targeted on-site observations in a literacy lab school. Includes preparation and instruction of two lessons in PK-3 classes. Off-campus site visits required. "B-" or better required. *Prerequisites: "C" or better in EDU 230 Educational Psychology and admission to SOE.*

EDU 322 Teaching Reading and Language Arts in the Intermediate Grades (3) (Fall, Spring)

Integrated reading/language arts methods resources course. Prepares teachers to create and implement effective literacy learning experiences in elementary classrooms in intermediate grades. Students explore and practice methods and strategies, examine materials, participate in active discussions, collaborate with peers, and reflect on classroom observations culminating in the creation of an interdisciplinary standards-based thematic unit. Focuses on individual, small group, and whole group literacy instruction; 20 hours of targeted on-site observations in a literacy lab school. Students prepare and teach two lessons in grades 3-6 classes. Off-campus site visits required. "B-" or better required. *Prerequisites: "C" or better in EDU 230 Educational Psychology and admission to SOE.*

EDU 336 Teaching at the Secondary Level (2) (Even Springs)

General topics unique to teaching at the secondary level. Emphasis on lesson planning and design, unit planning and design, and classroom management. For students with a major or minor without a methods course or for students desiring more learning opportunities in secondary methods. Off-campus site visits required. "B-" or better required. Prerequisites: SOE admission and "C" or better in EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development and EDU 267 Early Adolescent Development.

EDU 341 Teaching English at the Secondary Level (3) (Even Falls)

Topics unique teaching secondary-level English. Emphasizes curriculum developments in English in grammar and literature. Off-campus site visits required. "B-" or better required.

Prerequisites: SOE admission, "C" or better in EDU 230 Educational Psychology, junior standing.

EDU 342 Foundations of Secondary School Mathematics (3) (Even Springs)

Topics unique to teaching secondary-level mathematics. Emphasis on recent math curriculum developments including reform curricula, technology, and cooperative groups. "B-" or better required. SOE admission required. *Prerequisites: MAT 201 Calculus I, EDU 202 Issues and Trends in American Education, EDU 230 Educational Psychology.*

EDU 343 Teaching Science at the Secondary Level (2) (Even Falls)

Topics unique to the teaching of science at the secondary level. Emphasis on recent curriculum developments in science and on laboratory supervision. Off-campus site visit required. "B-" or better required. Prerequisites: SOE admission, and "C" or better in EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development and EDU 267 Early Adolescent Development.

EDU 344 Teaching History and Social Studies at the Secondary Level (2) (Odd Falls)

Practical learning course. Emphasizes development and delivery of lesson/unit plans based on the Michigan Curriculum Framework and Benchmarks and instructional strategies application, lesson modification, and assessment methodologies unique to teaching history and social studies at the secondary level. "B-" or better required. Prerequisites: SOE admission, and "C" or better in EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development and EDU 267 Early Adolescent Development.

EDU 346 Teaching World Languages (2) (Odd Falls)

Topics unique to the teaching of world languages at the K-12 levels. Practical methods of developing oral and comprehension skills will be studied and utilized. Off-campus site visits required. "B-" or better required. Prerequisites: SOE admission, and "C" or better in EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development and EDU 267 Early Adolescent Development.

EDU 349 Methods and Materials for Teaching Music in the Secondary School (3) See MUS 349.

EDU 350 Teaching Reading and Language Arts in Elementary School (5) (Teach out 2022-2023)

Integrated reading/language arts methods and resources course. Prepares teachers to create and implement effective literacy learning experiences in elementary classrooms. Students explore and practice methods and strategies, examine materials, participate in active discussions, collaborate with peers, and reflect on classroom observations culminating in the creation of an interdisciplinary standards-based thematic unit. Focuses on individual, small group and whole group literacy instruction; 20 hours of targeted on-site observations in a literacy lab school. Students prepare and teach two lessons in an elementary classroom. Off-campus campus site-visits required. "B-" or better. Prerequisites: SOE admission, and "C" or better in EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development and EDU 267 Early Adolescent Development.

EDU 352 Teaching Social Studies Methods in K-8 Schools (2) (Odd Springs)

A practical learning laboratory. Examines a variety of techniques, activities, and methods for teaching social studies in elementary and middle school grades. Emphasizes understanding and using Michigan Content Standards (GLCEs & C3 Framework) in developing objective-based lesson plans. A substantial part of this course is accomplished in a site-based setting in which students apply pedagogical content knowledge and effective practices in supervised settings under the direction of certified teachers and the instructor. Off-campus site visits required. "B-" or better required. Prerequisites: SOE admission, a "B-" or better in SST 200 Human Society: Learning in the Social Studies.

EDU 353 Teaching Science and Math STEM in K-8 Schools (4) (Odd Springs)

A practical learning laboratory. Examines a variety of techniques, activities, and methods for teaching science, technology, engineering, and mathematics in elementary and middle schools. Emphasizes understanding and using Michigan Science Standards and Common Core State Standards in developing objective-based lesson plans. Includes site-based application of pedagogical content knowledge and effective practices in supervised settings under certified teachers and the instructor. Off-campus site visits required. "B-" or better required.

Prerequisites: SOE admission, "B-" or better in NSC 200 Elementary Science Survey-Science by Inquiry, and MAT 330 Foundations of School Mathematics I or MAT 331 Foundations of School Mathematics II.

EDU 360 Integrating Technology in Education (2) (Fall, Spring)

Focuses on theory and practice of integrating technology into PK-12 teaching; development of a technology portfolio; hands-on use of hardware, software, and web tools; effective online teaching/learning with support skills; cognitive and motivational basis for effective technology use; benchmarks for PK-12 teaching and learning; and assessment of and reflection on technology-based teaching and learning in class and field experience. "C" or better required. *Prerequisites: "B-" or better in EDU 140 Exploring Critical Skills for the Professional Educator.*

EDU 366 Multiple Modes of Representation in Elementary Mathematics (4) (Fall, Spring)

Builds on the content previously learned in MAT330 and MAT331. Explores techniques of representing all mathematical content included in the Early Childhood Standards of Quality PK: Early Learning in Mathematics and PK-6 Michigan Academic Standards: Mathematics. Emphasizes cognitively guided instruction and number talks; the brain and mathematics learning; the power of mistakes and struggle in mathematics; rich mathematical tasks; growth mindset; and assessment in mathematics for a growth mindset. Candidates develop mathematics lesson plans aligned to Michigan math content standards in the area of PK-6 and engage in microteaching opportunities. Candidates teach mathematics lessons in PK-6 classrooms. Minimum of 20 clinical hours required. Candidates record core teaching practices observed and describe evidence of why the observed strategy fits the CTP. "C" or better required.

EDU 376 Children's Literature (3) (Spring)

Prepares prospective elementary teachers with knowledge and enthusiasm for the literature of children and young adults. The various genres will be introduced and evaluative considerations for selection of appropriate materials and enrichment activities will reinforce the versatility of children's literature throughout the school curriculum. Does not count toward English or language arts major or minor. "C" or better required for teacher education programs. Prerequisite: "B-" or better in EDU 140 Exploring Critical Skills for the Professional Educator.

EDU 424 Elementary and Middle School Reading Problems (3) (Fall, Interim)

Designed to assist the classroom teacher in assessing and diagnosing reading problems in the five areas of reading: phonemic awareness, phonics, fluency, vocabulary and comprehension. Various difficulties encountered in the reading process will be explored along with techniques for their assessment and support. Off-site case study required. Cross listed RDG 424. "C" or better required.

Prerequisites: SOE admission, and "B-" or better in EDU 321 Teaching Reading and Language Arts in Primary Grades or EDU 322 Teaching Reading and Language Arts in Intermediate Grades.

EDU 425 Reading Development in Middle and Secondary Content Areas (3) (Fall)

Focuses on literacy development strategies emphasizing effective learning in content contexts. Secondary school instruction encompasses reading comprehension, critical reading, integrated writing, and study strategies. Students examine the role of assessment tools to enhance reading to learn, as well as writing to learn, and methods to promote more extensive reading. Interaction with adolescent readers required. "C" or better required. *Prerequisites: SOE admission, and "C" or better in methods courses.*

EDU 429 Effective Classroom Management, Assessment and Instruction (3) (Fall, Spring)

Designed as a capstone course for preparation as a professional educator. Students revisit what they have learned and investigate current research and best practice regarding the essential elements of classroom management, classroom assessment, and teaching style/strategies. "B" or better required.

Prerequisites: SOE admission, and "C" or better in methods courses.

EDU 430E/S Seminar in Teaching (3) (Online)

Provides support for student teachers during the professional semester. Covers issues of importance to new teachers and prepares student teachers for future job interviews through creation of an interview portfolio including evidence of the ability to effectively plan and deliver instruction, analyze and interpret student learning data, and develop interventions. Includes resume and cover letter preparation and mock job interviews. Elementary student teachers seeking an endorsement in early elementary or special education take a respective seminar course. "B-" or better. Prerequisites: Completion of all EDU and program courses, 120 hours of pre-student teaching field experience, and approved to student teach.

Corequisites: EDU 450E/S

EDU 433 Applied Core Teaching Practices Across the Curriculum (PK-6) (4)

A practical learning laboratory. Candidates apply learned math, science, and social studies content using a variety of techniques, activities, and methods that directly align to core teaching practices. Emphasizes understanding and using Michigan elementary curriculum benchmarks in developing and presenting objective-based lesson plans and standards-based units. Requires a minimum 20 hours of teaching and learning in a site-based clinical experience supervised by a certified teacher. Core teaching practices are observed and documented with evidence.

EDU 450E Directed Teaching: Elementary (Fall, Spring)

Mentored elementary school teaching. Provides observation and management of the classroom and the learning activities of pupils. The student assumes increasing responsibility for directing the classroom. Students seeking early childhood endorsement also take ECE 450 Directed Teaching: Early Childhood. Students seeking SED LD endorsement also take SED 450 Mentored Experience in Teaching Special Education L.D. The number of credit hours to be taken will be determined individually based on specific number of weeks required for placement(s), as articulated in the student teacher policy. Graded "S"/"U."

Prerequisites: SOE admission, satisfactory completion of all required education courses and the required 120 hours of pre-student teaching field experience and approved to student teach.

EDU 450M Directed Teaching: Middle School (Fall, Spring)

Mentored middle school teaching experience to complement a successful elementary placement. Provides observation and management of the classroom and learning activities of pupils. The student assumes increasing responsibility for directing the classroom. Credit hours are determined individually based on the number of weeks required for placement(s), as articulated in the student teacher policy. Graded "S"/"U."

Prerequisites: SOE admission, completion of all required education courses, 120 hours of pre-student teaching field experience, and approved to student teach.

EDU 450S Directed Teaching: Secondary (Fall, Spring)

Mentored secondary school teaching. Provides observation and management of the classroom and the learning activities of pupils. The student assumes increasing responsibility for directing the classroom. Students seeking SED endorsement also take SED 450 Mentored Experience in Teaching Special Education L.D. Number of credit hours will be determined individually based on specific number of weeks required for placement(s), as articulated in the student teacher policy. Graded "S"/"U."

Prerequisites: SOE admission, satisfactory completion of all required education courses and the required 120 hours of pre-student teaching field experience and approved to student teach.

EDU 452 Directed Teaching II (Fall, Spring)

An additional experience in mentored teaching for those who need further experience in development of classroom techniques. Number of credit hours will be determined individually based on specific number of weeks required for placement(s), as articulated in the student teacher policy.

Prerequisite: EDU 450E/S Directed Teaching Elementary/Secondary and approved to student teach.

EGR (Engineering)

EGR 100 Introduction to Engineering I (3) (Fall)

An introduction to engineering as a career, including problem solving, engineering disciplines, design, teamwork, and communication. An introduction to engineering graphics is included with an emphasis on solids modeling. *Corequisite: EGR 100L*.

EGR 110 Basics of Engineering Design (1) (Interim)

An introduction to the engineering design process. Prerequisite: EGR 100 Introduction to Engineering I.

EGR 112 Introduction to Engineering II (1) (Spring)

Introduces the engineering design process, including teamwork development, ethics, professionalism, and reporting. *Prerequisite: EGR 110 Basics of Engineering Design.*

EGR 203 Electric Circuits w/Lab (4) (Fall)

Principles of linear networks covering the laws of circuit theory that apply to such networks, including elements of network topology, mesh currents and node voltages, network theorems, op-amps, energy and power, basic concepts of transient response of R-L and R-C networks to a unit pulse driving function, steady state sinusoidal voltage and current, including polyphase circuits, mutual coupling, and ideal transformers.

Prerequisite: MAT 202 Calculus II.

Corequisite: EGR 203L.

EGR 206 Statics (3) (Fall)

Fundamental mechanics concepts, equilibrium of force systems, structural applications, cables, friction, virtual work. *Prerequisite: MAT 202 Calculus II.*

EGR 216 Dynamics (3) (Spring)

Covers kinematics and kinetics of particles and rigid bodies. Principles of impulse, momentum, work, and energy. *Prerequisite: EGR 206 Statics.*

EGR 221 Advanced Circuits (3) (Spring)

Complex frequency analysis of linear networks, transient RLC network response, mutual coupling and ideal transformers, frequency response, Laplace transforms as applied to two-port networks, time and frequency domain transformations.

Prerequisite: EGR 203 Electric Circuits w/Lab. Corequisite: MAT 311 Differential Equations.

EGR 222 Digital Electronics (3) (Spring)

Application of Boolean algebra to the design of logic circuits; Karnaugh maps; registers, counters, and data conversion; microlabs for combinational and sequential logic circuits are included.

Prerequisite: EGR 203 Electric Circuits w/Lab.

EGR 301 Intro to Microcontrollers w/Lab (4) (Fall)

Application of digital and logic concepts to the study of microcontroller function and use. Topics include assembly language programming and hardware interface design for typical applications. Must take EGR 301L. *Prerequisite: EGR 222 Digital Electronics.*

EGR 310 Electronics w/Lab (3) (Fall)

An introduction to diodes, transistors and op amps and their use in electronic circuits; semiconductor theory; amplifier design; power amplifiers; and stability. Lab experiments involving design with transistors and op amps.

Prerequisite: EGR 221 Advanced Circuits.

Corequisite: EGR 310L.

EGR 321 Digital Signal Processing w/Lab (4) (Spring)

Principles of signal processing using sample data including z-transforms, FIR filters, IIR filters, FFT, and implementations. Design applications include processing of digital signals and bio-potentials. Three lecture credit hours and two to three laboratories during the semester.

Prerequisite: EGR 222 Digital Electronics.

EGR 326 Mechatronics (3) (Spring)

Modeling and analyzing electrical and mechanical systems and their interconnectedness; integration of mechanical, electronics, control, and computer engineering in the design of mechatronic systems; complete design, building, interfacing, and actuation of mechatronics systems to a set of specifications; use of data acquisition software and microcontroller programming.

Prerequisites: EGR 203 Electric Circuits, EGR 206 Statics, and MAT 352 Linear Algebra.

EGR 331 Mechanics of Materials (3) (Spring)

Covers stress and strain, properties of materials, axially-loaded members, stresses and deformations of beams, torsion, combined loading and principal stresses, elastic curves, superposition, design of beams and connections, continuous beams, and columns.

Prerequisite: EGR 206 Statics.

EGR 332 Thermodynamics with Lab (3) (Fall)

Covers properties of pure substances, heat and work, first and second laws of thermodynamics, entropy, ideal gases, gas-vapor mixtures, and availability.

Prerequisite: EGR 216 Dynamics.

EGR 401 Senior Design I (4) (Fall)

Application of design principles to a capstone engineering project. Team-based projects include developing design specifications, conceptual designs and final designs, as well as significant oral and written communication components. Project examples include intercollegiate competition, industry sponsored, applied research and service projects. Students pursuing more than one concentration in engineering or engineering technology must complete a two-semester sequence in senior design for each concentration. Includes weekly seminar on professional topics. Prerequisites: senior standing, EGR 301 Intro to Microcontrollers w/Lab, EGR 321 Digital Signal Processing w/Lab.

EGR 402 Senior Design II (4) (Spring)

Completion of final design, fabrication, testing and reporting of the engineering design projects initiated in EGR 401 Senior Design I.

Prerequisites: EGR 401 Senior Design I and permission of the instructor.

EGR 411 Introduction to Microprocessors and Microcomputers w/Lab (3) (Even Springs)

Application of digital and logic concepts to the study of microcontroller and microprocessor function and use, assembly language programming, and software design for typical applications.

Prerequisite: EGR 222 Digital Electronics.

EGR 412 Electromagnetic Fields and Waves w/Lab (3) (Fall)

Vectors, static electric, and magnetic fields in dielectric and magnetic materials; principles leading to Maxwell's and Poisson's equations; and use of the wave equation.

Prerequisite: EGR 203 Electric Circuits w/Lab; Corequisite: MAT 311 Differential Equations.

EGR 417 Communications Engineering w/Lab (3) (Spring)

The theory and functions of electronic communication elements including signal analysis, random processes, statistical average, transmission lines, and antennas.

Prerequisites: EGR 221 Advanced Circuits and MAT 351 Statistics.

EGR 418 Fluid Mechanics with Lab (4) (Spring)

Covers fluid statics and dynamics, flow of an ideal fluid, boundary layer, flow of real fluids through pipes and ducts, flow around immersed bodies, and analysis and design of hydraulic systems.

Prerequisite: EGR 216 Dynamics.

EGR 419 Vibrations (3) (Fall)

Covers vibration of single degree of freedom systems, natural and forced motions, dynamic loading; multi-degree of freedom systems and approximate methods; vibration of elastic bodies.

Prerequisites: EGR 216 Dynamics and MAT 302 Vector Calculus

EGR 421 Introduction to Biosignal Analysis (3) (Spring)

Introduction to principles and techniques for biomedical measurements. Includes amplifiers, bioelectric events, clinical lab, rehabilitation devices, and safety. Introduction to biological controls and biomaterials.

Prerequisite: EGR 203 Electric Circuits w/Lab.

EGR 422 Advanced Biosignal Analysis w/Lab (3) (Fall)

Application of analog, digital, and statistical techniques to the processing of biomedical signals. Includes sources, recording, and analysis of ECG, EEG, EMG, and evoked potentials.

Prerequisite: EGR 203 Electric Circuits w/Lab.

EGR 423 Biomechanics w/Lab (3) (Spring)

Principles of stress, strain, elasticity, and deformation. Engineering mechanics as applied to bone, muscle function, blood flow, and cell deformation analysis. Historical overview of biomechanics, exercise biomechanics, and physiology. Neurological motor control relating to human movement. Computer modeling of several human biological systems. Prerequisites: PHY 211 Modern University Physics I, BIO 264 Anatomy and Physiology I.

ENG (English)

ENG 103 Basic Writing (3) (Fall)

Basic skills in writing with emphasis on the writing of clear sentences, paragraphs, and short essays. Does not count toward a major or minor in English or language arts. Required for main campus students with SAT Writing Test subscore below 27. For Global and online programs, students may waive with a passing writing sample score as determine by SAU evaluators. May also transfer in CLEP credit to meet this requirement. "C" or better is required.

ENG 104 College Writing (3) (Fall, Spring, Online, Sites)

Theory and practice of writing analysis and argument essays with emphasis on library research and writing for university courses. "C" or better is required.

Prerequisite: ACT of 20/SAT Writing Test sub-score of 27 or completion of ENG 103 Basic Writing with a "C" or better. Off-campus programs require a passing grade on a writing sample.

ENG 112 World Literature (3) (Fall, Spring, Even Interims, Online)

Selections from the great literary masterpieces of world literature (classical to Renaissance periods), stressing analysis of genre. Cannot be used as a substitution in English or language arts majors or minors.

Prerequisite: ENG 104 College Writing.

ENG 208 Creative Writing (3) (Spring)

Introduces students to techniques of writing fiction, poetry, and drama.

Prerequisite: ENG 104 College Writing.

ENG 220 Introduction to Literary Study (3) (Fall)

Preparatory course for English literature courses. Introduces basic elements of literature (character, theme, structure, etc.) and application of critical functions for interpreting fiction, poetry, and drama.

Prerequisites: ENG 112 World Literature and sophomore standing.

ENG 304 Writing and Research (3) (Fall, Spring, Sites, Online)

Focuses on writing as process and writing skills that support research in the disciplines. Several shorter papers will contribute to a larger writing project to help students create a portfolio of their best work. "C" or better is required. *Prerequisite: "C" or better in ENG 104 College Writing.*

ENG 309 Creative Nonfiction (3) (Odd Springs)

Study and application of forms, theories and formal techniques behind "the fourth genre." Includes writing the different genre styles of history, science, travel, political, memoir and biography. Addresses ethical aspects that exist within creative non-fiction through study of the development of the genre and some of its most influential writers. *Prerequisite: ENG 208 Creative Writing.*

ENG 311 Poetry Writing (3) (Odd Falls)

An in-depth study and application of the craft of contemporary poetry. Students will study the unique forms, techniques and styles of contemporary poets, engage in original research of an individual poet or school, and develop their own poetry.

Prerequisite: ENG 208 Creative Writing.

ENG 313 Fiction Writing (3) (Even Interims)

A study of theme, characterization, plot, conflict, dialogue, complication, scenes of movement, climax and denouement of novels and short stories, with writing exercises to cultivate the art and skill of fiction writing. *Prerequisites: ENG 208 Creative Writing.*

ENG 314 Script Writing (3)

See VID 314.

ENG 315 Shakespeare (3) (Even Falls)

Selected Shakespearean histories, comedies and tragedies, with special emphasis upon Shakespeare's themes and Elizabethan worldview.

ENG 322 19th Century American Literature (3) (Even Springs)

Covers the authors immediately following the formation of the U.S. as a nation, especially their voices and visions shaping the new nation. Reviews the work of the American Romantics prior to the Civil War; after the war, the course focuses on the major writers who represent new voices of the American Realism in America's emerging landscape.

ENG 329 Early British and Continental Literature (3) (Even Springs)

A survey of Early British and Continental literature.

ENG 330 Genre (3) (Limited)

The style, form and content of varying types of literature: drama, film, mythology, fantasy, epic poetry, novel, and short story. Examples: English novel, existential literature, and major American novelists.

ENG 333 The Bible as Literature (3) (Spring)

Examines the Bible as one of the foundational texts for Western literature and why its content and form have so deeply influenced literary artists. Explores biblical narrative, poetry and features of key biblical genres. Exposes students to the aesthetic unity of the Bible.

ENG 350 Early 20th Century American Literature (3) (Odd Falls)

A study of the major and secondary authors of American literature from 1865 to 1945, including Ernest Hemingway and William Faulkner, with emphasis on the American experience.

ENG 352 American Literature: World War II - Present (3) (Odd Springs)

American literature since WWII with an emphasis on the changing culture and evolving canon regarding the emergence of ethnic writers.

ENG 360 19th Century British Literature (3) (Odd Falls)

A study of prose, poetry and selected novels of nineteenth-century Britain beginning with the roots of romanticism and continuing through the late Victorian period.

ENG 361 English Language (3) (Fall)

History of the English language from the Anglo-Saxon period to the present. Philosophy of language in general.

ENG 362 20th Century British Literature (3) (Even Springs)

Includes both a variety of literary forms – poetry, novels, plays, short-stories – as well as voices from the many corners of Britain: Irish, English, Scottish, Welsh, and Northern Irish.

ENG 420 Major Authors (3) (Limited)

In-depth examination of one or more literary figures, such as Chesterton, Dostoevsky, C.S. Lewis, and Wendell Berry.

ENT (Entrepreneurship)

ENT 201 Small Business Management: An Entrepreneurial Approach (3) (Even Falls)

Highlights how entrepreneurs approach small business opportunities and challenges. Students will be challenged to think critically and consider how to apply various business discipline concepts in a real-world context while embracing the necessary character attributes of innovation in business practice.

ENT 311 Entrepreneurship and Planning for Success (3) (Odd Springs)

Introduces the process of turning an idea into a successful startup enterprise. Focuses on the Business Plan as a necessary component to beginning a small business and a process by which ideas can become businesses. Addresses facets of the business plan from determining actual content, reviewing examples of plans, to creating a comprehensive plan.

ENT 401 Social Entrepreneurship (3) (Odd Falls)

Opportunity to develop entrepreneurial approaches to addressing global challenges. Students engage in the application of innovation and risk-taking to solve various social challenges from an entrepreneurial perspective. Covers business entrepreneurship skills such as planning, opportunity analysis, initiative, financial management, resourcefulness, and creativity as keys to the changing of the systems and patterns of society to provide creative solutions within a Christian context.

FAS (Fine Arts)

FAS 152 Fine Arts for Nurses (3) (Spring)

Explores the relationships between the fine arts (visual arts and music) and the religious, political, and social values of a culture. Through systematic, comparative study of two the Renaissance and Contemporary, students develop an increased perceptual and aesthetic awareness. Emphasizes assessment and integration of information from a variety of sources and perspectives. Meets the general education fine arts requirement (music and art) for nursing students.

FIN (Finance)

FIN 200 Introduction to Financial Planning (3) (Fall)

Provides general principles of financial planning, professional ethics, regulation, and planning. Assists in understanding the financial planning process and working with clients to set goals and assess risk. Other topics include processing and analyzing information, constructing personal financial statements, developing debt management plans, recommending financing strategies, understanding basic components of a comprehensive financial plan, the time value of money, and economic principles.

FIN 201 Financial Institutions (1) (Spring)

A trip that explores the financial districts of a major city such as New York, Chicago or London. The length of the trip may vary. This trip could be an extra week added onto the cross-cultural experience. Graded "S"/"U," unless required for the major/minor.

FIN 202 Student Managed Investments (1) (Fall, Spring)

Participation in the Gainey School of Business Investment team that invests funds for student scholarships and trips. Graded "S"/"U," unless required for the major or minor. May be repeated once.

FIN 268 Personal Finance (3) (Online)

Various alternatives available in planning financial affairs; budgeting, buying on credit, borrowing, saving, investing intelligently, home ownership and wise estate planning comprise the core of this course. Practical applications facilitate understanding of essential principles of finance and incorporate recent developments. Cross listed ECN 268.

FIN 301 Money and Banking (3) (Even Springs)

The development of our monetary and banking structure, with emphasis on the role of government and the Federal Reserve System in today's economy. It is strongly recommended that students take ECN 222 Introduction to Macroeconomics before taking this course to acquire prerequisite knowledge needed for course success. Cross listed BUS 301 and ECN 301.

FIN 362 Principles of Finance (3) (Fall)

The principles and problems involved in the finance function of firms, including financial aspects of the form of the organization and the allocation of capital.

Prerequisite: ACC 221 Principles of Accounting I.

FIN 367 International Finance (3) (Limited Offering)

Focus on foreign exchange markets, forecasting exchange rates, currency risk hedging techniques, and current derivative instruments. In addition, macroeconomic policies, international portfolio management, and investment practices of multinational firms will be reviewed to expose students to current issues.

Prerequisite: FIN 362 Principles of Finance.

FIN 368 Insurance and Risk Management (3) (Even Springs)

Provides an overview of risk management and insurance concepts. Primary focus on identification and evaluation of loss exposures in personal and business settings. Alternative techniques for managing these risks will be analyzed. Decision-making methods under uncertainty are covered in this course. It is strongly recommended that students take a Statistics course before taking this course to acquire prerequisite knowledge needed for course success.

FIN 418 Investments (3) (Odd Springs)

The theory and practice of investments, emphasizing securities, the manner and method of their exchange, the function of security market and the factors promoting changes in security prices.

Prerequisites: ECN 222 Introduction to Macroeconomics and ACC 221 Principles of Accounting I.

FIN 420 Retirement Planning (3) (Even Falls)

Covers retirement planning for the business, business owner and individual; qualified plans, nonqualified plans and IRAs; the practical knowledge needed for choosing the best retirement plan; and designing a plan that will meet clients' needs based on their tax situation and other considerations.

Prerequisite: FIN 362 Principles of Finance.

FIN 425 Estate Planning (3) (Odd Falls)

Includes aspects of estate and gift tax planning, transfer, administration, and taxation of property; basic understanding of the unified estate and gift tax system; transfers of property outright or with trusts, wills and powers of appointment; federal estate and gift taxation; the marital deduction; various estate planning devices used in the estate planning process; the interview process; ethical standards; and development of appropriate estate plans. *Prerequisite: FIN 362 Principles of Finance.*

FIN 450 Internship (6) (Fall, Spring)

Substantive business experience in finance. A student is matched with a corporate partner or business of choice. Involves the student in a substantial financial role. The advisor will visit the work site to assess the student in the workplace and make suggestions that could enhance the internship experience.

FIN 451 Business Forecasting and Analytics (3) (Odd Springs)

Introduces state-of-the-art techniques in business forecasting. Emphasizes both principles and applications. Students develop forecasting models in Excel and/or other software programs. Small and large cases are utilized to enhance learning.

Prerequisite: BUS/HES/MAT/PSY 351 Statistics.

FIN 452 Series 7 Preparation (3) (Limited)

Comprehensive course focusing on Series 7 preparation. An in-depth examination of the securities industry from the perspective of the brokerage function, including the regulatory environment and legal liability issues, professional ethics, transaction settlement procedures, public/client relations and investment planning strategies. Prepares students to complete the Qualification Examination for General Securities Registered Representative (Series 7 Exam). *Prerequisite: FIN 362 Principles of Finance.*

FIN 480 Finance Capstone (3) (Odd Springs)

An advanced comprehensive course in corporate finance with focus on financial management. Covers theory and practice of the management of the finance function in corporations. Topics covered include capital budgeting, the theory and practice of capital structure, leasing, capital asset pricing model, long-term financing, expansion and synthetic securities. Also includes a study of the wide range of markets and instruments used to finance projects and control risk in today's global economy. Introduces the operational, regulatory, and transitory characteristics of capital markets and financial institutions. Topics include the monetary system, stock, bond, mortgage, futures, options markets, pension funds, investment firms, commercial banks, credit unions, mutual funds and insurance companies. *Prerequisite: FIN 362 Principles of Finance.*

FRE (French) FRE courses are suspended until further notice.

FRE 101 Elementary French I (3)

Overview of the elements of French grammar, vocabulary acquisition, pronunciation patterns and practice in conversation, and introduces French cultures. Does not count toward the French minor requirements.

FRE 102 Elementary French II (3)

Continuation of FRE 101. Does not count toward the French minor requirements.

Prerequisite: FRE 101 Elementary French I.

FRE 201 Intermediate French I (3)

Acquisition of extensive vocabulary, development of conversational and communicative skills, survey of essential grammatical structures, exploration of cultural values in Francophone regions. Does not count toward French minor. *Prerequisite: FRE 102 Elementary French II.*

FRE 202 Intermediate French II (3)

Continuation of FRE 201. Does not count toward the French minor requirements.

Prerequisite: FRE 201 Intermediate French I.

FRE 306 Introduction to French Literature and Culture (3)

Gateway to study in all other French 300- and 400-level courses. Prepares students for continued advanced coursework in French. Topics include developing advanced grammatical forms, presentation skills, and the ability to critique within the cultural and literacy contexts. "B-" or better is required for other upper-level French courses.

FRE 321 Advanced French Composition (3)

Exercises, compositions, drills, and communicative activities designed to develop advanced competence in French. *Prerequisite: "B-" in FRE 306 Introduction to French Literature and Culture.*

FRE 322 Advanced French Conversation and Phonetics (3)

Intensive practice in speaking French with oral presentations, discussions, and listening assignments. Includes a detailed study of French phonetics, with emphasis on perfection of the students' spoken accent.

Prerequisite: "B-" in FRE 306 Introduction to French Literature and Culture.

FRE 323 Contemporary French Culture (3)

Readings and listening assignments dealing with issues in contemporary French life and society. Acquaints students with modern France and the lifestyles of its people, as well as politics, current events, commerce, and the arts. May include various Francophone regions of the world. Recommended prerequisite of FRE 322 Advanced French Conversation and Phonetics.

Prerequisite: "B-" in FRE 306 Introduction to French Literature and Culture.

FRE 324 French Civilization (3)

Covers French history and geography with emphasis on the major political, social, and artistic movements. Designed to enhance the students' knowledge of French culture in its historical context and to enrich their literary studies.

Prerequisite: "B-" in FRE 306 Introduction to French Literature and Culture.

FRE 325 Survey of French Literature (3)

Selected literary works in prose and poetry from the Middle Ages to the 20th century with emphasis on the use of language in a critical approach to literature. Recommended prerequisite of FRE 322.

Prerequisite: "B-" in FRE 306 Introduction to French Literature and Culture

FRE 326 Survey of French Literature (3)

Selected literary works in prose and poetry dating from the Middle Ages to the twentieth century, with emphasis on the use of language in a critical approach to literature. It is recommended that students take FRE 322 Advanced French Conversation and Phonetics before taking this course.

Prerequisite: "B-" in FRE 306 Introduction to French Literature and Culture.

FRE 410 Seminar in French Literature (3)

A capstone study of selected landmark works in prose and poetry incorporating literary analysis and criticism as well as a comprehensive review of the four skills: reading, writing, listening and speaking. Recommended prerequisite of FRE 322 Advanced French Conversation and Phonetics.

Prerequisite: "B-" in FRE 306 Introduction to French Literature and Culture.

GEO (Geography)

GEO 221 Introduction to Geography (3) (Fall Online)

The physical and cultural elements of mankind's habitats; the importance of maps and their use; and the significance of all elements of the earth to man.

GEO 232 North America (3) (Even Springs Online)

Studies the North American continent within the context provided by physical, cultural, and historical geography.

GEO 304 Geography and History of Russia and the Former Soviet Union (3)

See HIS 304.

GEO 331 China, India, and Japan (3)

See HIS 331.

GEO 332 Africa (3)

See HIS 332.

GEO 333 Latin America (3)

See HIS 333.

GEO 334 The Middle East (3)

See HIS 334. Cross listed POL 334.

GEO 335 East Asia (3)

See HIS 335.

GEO 342 Hebrew History and Geography (3)

See BIB 342.

GER (German)

GER 100 Business German (3) (Limited)

Prepares students to communicate in German in everyday situations with emphasis on business. Practice speaking, listening, writing, and reading business themes and topics of cultural differences in etiquette and practices.

GER 101 Elementary German I (3) (Limited)

Fundamentals of speaking, reading, writing, and listening to German and interactive, practical communication skills. German culture will be explored.

GER 102 Elementary German II (3) (Limited)

Continuation of GER 101.

Prerequisite: GER 101 Elementary German I.

GER 201 Intermediate German I (3) (Limited)

Review and thorough study of grammar and communication skills. Extensive practice in conversation, reading, and composition in a cross-cultural context. Designed to promote awareness/appreciation of German culture. Prerequisite: GER 102 Elementary German II.

GER 306 Introduction to German Literature and Culture (3) (Limited)

Central concepts include developing advanced reading and critical writing skills, higher level grammatical forms, presentation skills, and the ability to critique within the cultural and literary contexts.

Prerequisite: GER 201 Intermediate German I.

GES (General Studies)

GES 100 Writing Experience (1-2) (Limited)

Designed for students who want more opportunity to develop their writing skills. A process-oriented class in which writing and rewriting of all papers is expected. Includes development of ideas, different levels of support, and patterns of writing. Individual needs will be addressed. One additional lab hour a week is required.

Prerequisite: by permission from the Academic Support Center only.

GES 110 Study Enhancement (1) (Fall, Spring)

A course for entering students needing modeling and practice using successful study skill enhancement. Primary topics are time management, learning styles, goal setting, strategies for test taking, note taking, and reading. GES 112 Application: Study Strategies required as follow-up course.

GES 112 Application: Study Strategies (1) (Spring)

Emphasizes application of learning strategies presented in GES 110 and GES 116. Selected content courses being taken concurrently by the students will be monitored weekly through tutorial sessions.

Prerequisites: GES 110 Study Enhancement, GES 116 Reading and Study Assistance Program, or Academic Support Center permission.

GES 115 College Reading I (2) (Spring)

A reading course to assist new or returning students on strategies for dealing with university textbooks. Includes locating main ideas, drawing inferences, summarizing, and vocabulary development. Entrance test required.

GES 116 Reading and Study Assistance Program (3) (Fall)

Prepares a student to successfully handle college-level reading and study tasks. Goal-setting and time management are included early in the semester. Focuses on interactive strategies for handling reading, vocabulary development, note-taking, and test-taking in targeted General Education courses. GES 112 Application: Study Strategies required as a follow-up course.

GES 130 ESL Intermediate Topics (3) (Limited)

Offers a variety of intermediate topics allowing the students to focus on a particular area. Topics may vary by semester.

GES 131 ESL Intermediate Foundations I (2-4) (Limited)

Integrated skills English course, focusing on reading, writing, listening/speaking, grammar, reading strategies, presentation skills, summary writing, introduction to essay writing, and comprehension and analyzation of a variety of authentic texts.

GES 132 ESL Intermediate Grammar (2-3) (Limited)

Focuses on understanding and using complex grammatical structures. Introduces a detailed editing procedure for written work with practical application.

GES 133 ESL Intermediate Reading (2-4) (Limited)

Reading strategies to understand the organization of a text and its content. Focuses on increasing reading speed.

GES 134 ESL Intermediate Writing Workshop (1-4) (Limited)

Focuses on the organization of writing at the sentence and paragraph level. Students learn to write topic sentences and develop each topic within a paragraph through clear explanations and examples. Emphasizes effective use of transition words.

GES 135 ESL Intermediate Listening and Speaking (1-4) (Limited)

Focuses on developing each student's ability to communicate fluently and accurately by integrating listening, speaking and pronunciation practice. Specific listening and speaking strategies that focus on the American culture as well as the expectations and requirements of the American classroom will be studied and practiced.

GES 136 ESL Intermediate Projects (3) (Limited)

Students complete projects such as surveys, newsletters, and a group presentation, and participate in culture field trips with opportunities to interact and communicate with Americans in the Spring Arbor/Jackson community.

GES 137 ESL Current Issues in American Culture (3) (Limited)

Provides the opportunity to learn modern, idiomatic English, especially as used in U.S. journalism, to fully understand current events and issues in American culture. Focuses on the five major social institutions as expressed in American culture. Exposes students to the cultural elements by which those institutions are articulated such as art, movies, sports, and leisure activities.

GES 140 ESL Advanced Topics (1-3) (Limited)

Offers a variety of advanced topics allowing students to focus on a particular area. Topics vary by semester.

GES 141 ESL Advanced Foundations II (3) (Limited)

Integrated skills English course, focusing on reading, writing, listening/speaking, grammar, expository writing, critical analysis, focused listening, note taking, and the analyzation of academic texts.

GES 142 ESL Writer's Workshop (1-4) (Limited)

Focuses on the organization and development of Western-style academic writing. Students practice writing referenced research papers, as well as personal essays. Grammatical structures will be analyzed and practiced.

GES 146 ESL Current Issues in the Global Village (3) (Limited)

Provides the opportunity to learn modern, idiomatic English as used in U.S. journalism to understand global current events and issues more fully from a North American perspective. Students research and articulate their own government's position on specific issues and present those findings through written and spoken methods.

GRE (Greek)

GRE 331 Elementary New Testament Greek I (3) (Even Falls)

The elements of New Testament Greek including vocabulary, conjugations, declensions, significance of tenses, cases, moods, translations, written compositions, and selected readings in the New Testament.

GRE 332 Elementary New Testament Greek II (3) (Odd Springs)

Continuation of GRE 331 Elementary New Testament Greek I. Prerequisite: GRE 331 Elementary New Testament Greek I.

GRE 431 Intermediate Greek I (3) (Odd Falls)

Advanced work in grammar, syntax, and translation of selected passages in the New Testament.

Prerequisite: GRE 332 Elementary New Testament Greek II.

GRE 432 Intermediate Greek II (3) (Even Springs)

Continuation of GRE 431 Intermediate Greek I. Prerequisite: GRE 431 Intermediate Greek I.

HEB (Hebrew)

HEB 331 Elementary Biblical Hebrew I (3) (Odd Falls)

An introduction to the study of biblical Hebrew including grammatical structure, vocabulary acquisition, and its application to the Hebrew Scriptures. Introduces appropriate study tools to facilitate reading and exegesis.

HEB 332 Elementary Biblical Hebrew II (3) (Even Springs)

Continuation of HEB 331 Elementary Biblical Hebrew I. Includes translation from the Massoretic Text using simpler narrative passages.

Prerequisite: HEB 331 Elementary Biblical Hebrew I.

HEB 431 Intermediate Biblical Hebrew (3) (Limited)

Advanced work in grammar, syntax, and translation of selected passages in the Massoretic Text.

Prerequisite: HEB 332 Elementary Biblical Hebrew II.

HES (Health and Exercise Science)

HES 321 Scientific Principles of Strength and Conditioning (3) (Fall)

Examines the human body and its responses to exercise including program design for aerobic, resistance training, speed and agility, and plyometric training. Also includes exercise testing and nutrition, and facility design, organization, and policies. Prepares students for the NSCA CSCS exam. "C" or better required for departmental majors. *Prerequisites: HPR 178 Aerobic Activities and HPR 179 Strength and Power Training*

HES 335 Facilities Planning and Operations for Health, Fitness, Recreation and Sports (3)

See REC 335.

HES 345 Principles of Exercise Prescription (2) (Fall, Spring)

Presents the essential components of systematic, individualized exercise prescriptions for healthy and special populations. Addresses appropriate pre-exercise screening, health-risk stratification, and principles of prescription including modes, intensity, duration, frequency, and progression of exercise following American College of Sports Medicine guidelines. "C" or better required for departmental majors.

Prerequisite: "C" or better in HPR 153 Foundations of Physical Fitness, Health and Wellness.

HES 351 Statistics (3) (Fall)

Introduces statistics with an interdisciplinary perspective using examples, problems, and applications from health sciences. Covers descriptive and inferential statistics. Emphasis on problem-solving through collection, organization, analysis, and interpretation of data. Lab activities and computer applications. "C" or better for departmental majors.

HES 365 Introduction to Pharmacology (3)

See BIO 365.

HES 381 Nutrition and Energy Metabolism (3) (Spring)

A study of nutrients and their role in health and fitness with an emphasis on nutrition knowledge and application for optimal performance. Particular attention is given to body composition, energy balance, and fuel for aerobic/anaerobic metabolism. A computerized diet analysis and meal preparation are required. "C" or better required for departmental majors.

Prerequisites: declared HPR major, minor, or institutional endorsement, sophomore standing.

HES 382 Functional Anatomy and Application (3) (Fall, Spring)

An in-depth study on the functional aspects of anatomy including muscle origin and insertions, joints, joint movement, gait, and muscle function. Introduces the prevention, evaluation, and treatment of athletic-related injuries, and other related concepts/theories. "C" or better required for departmental majors.

Prerequisites: BIO 265 Anatomy and Physiology II, and sophomore standing. BIO 265 may be taken concurrently with proper authorization.

HES 442 Advanced Athletic Training (3) (Limited)

A thorough review of the structure and function of bones, muscles, and specific anatomic components of major joints. Covers the array of athletic injuries and common causes, examination, and recommended treatment. Examines treatments and programs to rehabilitate/prevent specific injuries. "C" or better required for departmental majors. *Prerequisites: HES 382 Functional Anatomy and Application.*

HES 450 Internship (6-12) (Fall)

"C" or better required for departmental majors.

HES 462 Cardiovascular Function and Electrophysiology (3) (Fall)

An in-depth study of circulation, heart structure and function, cardiovascular training responses, and heart disease. Includes instruction in EKG interpretation and experience and EKG metabolic cart graded exercise testing. Addresses cardiovascular medications and diagnostic procedures. "C" or better required for departmental majors. Prerequisites: HPR 153 Foundations of Physical Fitness, Health, and Wellness; BIO 265 Anatomy and Physiology II; and junior standing. BIO 265 Anatomy and Physiology II may be taken concurrently with proper authorization.

HES 473 Biomechanical and Anatomical Analysis of Human Movement (4) (Fall)

Analysis of human movement related to locomotion, basic skills, and athletic performance. Utilizes biomechanical and anatomic approaches. Includes lab. "C" or better required for departmental majors.

Prerequisites: BIO 265 Anatomy and Physiology II (may be taken concurrently with approval), senior standing. Corequisite: HES 473L.

HES 474 Physiology of Exercise (3) (Spring)

Designed to assist the future practitioner – teacher, coach, athlete, trainer, fitness instructor, physical therapist, or team physician – in the understanding of physiologic principles underlying the physical conditioning process and the body's acute and chronic adaptation to exercise. Examines the application of basic physiologic principles such as muscular and neurological control of movement, metabolism and basic energy systems, hormonal regulation of exercise, and cardiorespiratory function and performance for improved human fitness and performance. "C" or better required for departmental majors.

Prerequisites: BIO 264 Anatomy and Physiology I, and junior standing.

HES 475 Physiology of Exercise Lab (2) (Spring)

Includes field and laboratory testing for various components of physical fitness. Special emphasis given to graded exercise testing and metabolic calculations. Strongly encouraged for students also taking HES 474 Physiology of Exercise. "C" or better required for departmental majors.

Prerequisites: BIO 264 Anatomy and Physiology I, and junior standing.

HES 480 Senior Seminar (1) (Fall)

A seminar course intended as a capstone with emphasis on career and professional development skills and activities as preparation for graduate programs or employment in health, human performance, and recreation related fields. Cross listed REC 480. "C" or better required for departmental majors.

Prerequisite: senior standing.

HIS (History)

HIS 121 History of Civilization I (3) (Fall)

Study of the rise and development of civilization throughout the world. Emphasizes the origins of Western civilization in the river valleys of Egypt and Mesopotamia, its development in Greece and Rome, and its flowering during the Middle Ages. Attention given to the civilizations of South and East Asia, Africa, and the Americas and their contributions to world civilization. Concludes with the voyages of European discovery, which brought the isolated civilizations of the world into direct contact with each other. Explores Christian interpretations of world history.

HIS 122 History of Civilization II (3) (Spring)

A continuation of HIS 121, from the rise of the Renaissance in Europe to the present day. Major themes explored include the Scientific Revolution, Enlightenment, revolutionary era, industrialization and colonialism, the two world wars and the Cold War. Emphasizes the response of people of Africa, Asia, and Latin America to the encroachments of the West. Covers the rise of an uneasy global civilization in the 21st Century. Explores Christian interpretations of modern history.

HIS 141 United States to 1877 (3) (Fall, Sites, Online)

Study of American history from colonial times through the Civil War and Reconstruction. Emphasizes fundamental forces or cultural ideals that have shaped this period of history, such as Puritanism, the Enlightenment, the

Revolution, antebellum Evangelicalism, and the struggle over slavery. A multidisciplinary approach will be taken, as well as efforts to develop Christian insights concerning the unfolding of American history.

HIS 142 United States Since 1877 (3) (Spring, Sites, Online)

Introduces cultural ideals and forces that have helped shape modern America, such as industrialization, progressivism, the battle between science and religion, the two world wars, the Great Depression, the New Deal and Great Society, the spirits unleashed in the 1960s, and the culture wars of the 1990s. A multidisciplinary framework is used, as well as efforts to develop Christian insights so that students will be better able to make sense out of modern life.

HIS 221 Black Experience in America (3) (Even Falls)

Focuses on the experience of being black in America, analyzed from historical, sociological, and artistic perspectives.

HIS 230 Contemporary World Affairs (3) (Even Falls)

See POL 230.

HIS 236 Christianity and Politics (3)

See POL 236.

HIS 302 Nineteenth Century Europe (3) (Odd Falls)

Examination of political, social, and ideological developments in Europe during the "long peace" from 1815 to 1914. Emphasizes the growth, development, and changes in ideologies of conservatism, liberalism, socialism, and nationalism. Students develop discernment in the study of primary sources and variety of historical interpretations.

HIS 303 Twentieth Century Europe (3) (Even Springs)

Covers events and developments in Europe from the outbreak World War I to the present. Explores the challenge to democratic thought and institutions posed by communism and fascism, as well as the collapse of the communist system since 1989. Examines the decline of Europe as the center of world power and the development of a post-imperial culture. Students are encouraged to develop discernment in the study of primary sources.

HIS 304 Geography and History of Russia and the Former Soviet Union (3) (Even Falls)

Covers the physical and political geography of Russia and the independent states of the former Soviet Union, a region of enormous influence on the world stage. Emphasizes the historical development of the Russian state, the creation of communist ideology, the Soviet Union, and collapse of both ideology and the Union. Cross listed GEO 304.

HIS 306 The Makings of Modern Europe (4) (Even Falls)

Seminar course. Covers the major stations and creation of modern Europe from the end of the Roman Empire through the Enlightenment. Emphasizes the major institutions shaping modern European society: Christendom, the idea of Rome, the creation of nobility and social classes, the development of Western thought, and the exploration and expansion of European influence on the outside world.

HIS 307 Colonial America, 1492-1760 (3) (Limited)

Examination of the American colonies from their founding by European powers to the expulsion of the French by the British at the conclusion of the French and Indian War. Concentration on the clash of various cultural ideals—both Native American and European—as well as the religious bases of many movements and colonies. Students compare and contrast various movements in light of their own maturing perspectives and to show connections between the colonial past and present conditions.

HIS 308 The American Revolution (3) (Limited)

Examines this crucial period in the formation of a new nation and the clash of cultural ideals between British and colonial leaders. Explores both sides and reflects upon the fate of communities such as native Americans, loyalists, and other minorities. Evaluates strengths and weaknesses of revolutionary ideals in light of subsequent history.

HIS 309 Civil War and Reconstruction (3) (Odd Falls)

Examines the forces leading up to the Civil War, the major battles, and the difficulties of reuniting a country torn apart by major conflict. Special emphasis placed on causative factors such as slavery, comparing and contrasting the

strengths and weaknesses of both sides, as well as the various reconstruction plans and realities. Students will be encouraged to see all sides of this conflict, as well as reflecting on the impact the war has had on subsequent history.

HIS 310 Twentieth Century America (3) (Even Springs)

Examines the dominant cultural ideals that shaped American history in the 20th Century. Emphasis placed on the clash of secular and religious themes in the making of America – a struggle continuing to the present. Students compare and contrast these movements and themes to formulate perspectives on directions to take in the 21st century.

HIS 313 America in the 1960s (3) (Even Interims)

In-depth examination of the tumultuous 1960s that brought many changes into American culture—political, social, economic, cultural, and religious. Introduces insights from various Christian communities regarding this decade. Cross listed POL 313.

HIS 331 China, India, Japan (3) (Online)

Asia's lands and peoples, with special emphasis on China, India, and Japan. Includes historical, political, cultural, and economic insights within a geographical context. Cross listed GEO 331.

HIS 332 Africa (3) (Online)

The African continent: the natural environment, the people and their customs, the discovery and opening of the country by explorers and missionaries, the partition of Africa, and the present political and economic trends. Cross listed GEO 332.

HIS 333 Latin America (3) (Limited)

Latin America from the beginning of the colonial period to the present. Introduces the history and culture in a geographical setting and Latin American relations with the rest of the world. Cross listed GEO 333.

HIS 334 The Middle East (3) (Odd Springs)

An interdisciplinary survey of the lands, history, and political dynamics of Southwest Asia, commonly known as the Middle East, and North Africa. Includes elements of the topography and cultural landscape, a survey of the history since 7th Century Muslim conquest, and discussions of current political issues. Cross listed GEO 334 and POL 334.

HIS 335 East Asia (3) (Even Springs)

Examines the three largest cultures in East Asia, China, India, and Korea. Includes a survey of the interplay between these three cultures over the past millennia. Special emphasis is on the 20th and 21st century and the connections between the military, communist, and capitalist ideologies that led to the most destructive era in the history of the region and the dramatic restoration of Asian economic power in the world. Cross listed GEO 335 and POL 335.

HIS 340 Women in American History (3) (Limited)

Designed to disclose the significant achievements of women in major fields of endeavor, and surveys voluminous literature that is available. The long struggle of American women to cast off the image of "the weaker sex" in an effort to have their roles recognized is a study that promises to contribute significantly to contemporary reform decisions.

HIS 342 Hebrew History and Geography (3)

See BIB 342.

HIS 343 History of Christianity (3)

See REL 343.

HIS 346 History of Christianity in America (3)

See REL 346.

HIS 361 Michigan History (3) (Spring Online)

Examines Michigan history within its geographic context at the heart of the Great Lakes region, the settlement of the state, the variety of peoples that make up the area, and the political, social, and cultural institutions of the state. Emphasizes Michigan's role in the economy of North America, and history of the state's use of resources.

HIS 368 Diplomatic History (3) (Odd Falls)

A chronological and conceptual journey through the maze of relations between the U.S. and other states during the past 230 years. Assumes students understand the broad outlines of U.S. history and have interest in U.S. relations with other nation states. Explores the changing dynamics of extra-territorial relations as the U.S. expands across the continent and extends its influence around the world. Focuses on the interaction of non-state actors with national policy and the foreign policy challenges of the 21st century. Cross listed POL 368.

HIS 382 International Human Rights (3)

See SOC 382.

HIS 403 History of Biblical Interpretation and Criticism: 1750-1950 (3) (Odd Springs)

A study of the intellectual currents of the modern era and how those were reinterpreted through study of the Old and New Testaments. Examines the initial challenges to traditional scripture by Reimarus and Michaelis through the Second Quest of Bultmann, Kaesemann and others. Focuses on the cultural developments of the Enlightenment, nationalism, radicalism, romanticism, realism, and the cult of science. Cross listed BIB 403.

HIS 478 Senior History Seminar (3) (Fall)

In this course, students delve into one topic of historiographical importance to introduce methods and philosophies of interpretation. Students learn to navigate the differing opinions of historians and to evaluate their use of historical knowledge to create persuasive historical narratives. Students will write a historiographical paper that will serve as an introduction to their final capstone research paper in HIS 480 Philosophy of History.

Prerequisite: junior standing.

HIS 480 Philosophy of History (3) (Spring)

A seminar course. Examines the primary secular and religious philosophies of history, as well as the methods of historical logic, research, and writing. A research paper which delivered to the class as a formal presentation is required. It is recommended that students take HIS 478 Senior History Seminar before taking this course. *Prerequisite: junior standing.*

HON (Honors)

HON 234 Great Books of Community, Place and Responsibility (3) (Fall)

Explores the virtues of compassion, hope, and justice within the context of local communities. Engages students in questions of local import for the investigation of what it means to love in place and with responsibility. Includes a local, experiential weekend. Focuses on a specific theme, time-period, and/or subject through which to explore the subject matter. In addition to affording the opportunity to create personal connections with different communities and ideas of responsibility, explores how cultural and governmental ideas and polices have caused and changed these communities. Texts are selected specifically for the chosen theme.

HON 310 Great Books of World Literature (3) (Spring)

Delves into the history of western literature, beginning with the Greeks, moving to the Romans, to the Medieval era, and into the works of Renaissance authors. Explores the interrelation between form and content, the development of generic characteristics, and the formation of Christian imagination in these periods. Introduces works such as the Odyssey, the Oresteia, Medea, Antigone, the Aeneid, Beowulf, Sir Gawain and the Green Knight, the Divine Comedy, Paradise Lost, and Shakespeare selections. Emphasizes the practice the craft of close reading.

HON 317 Great Books of Philosophy (3) (Fall)

Introduces logic, philosophy of science, and traditional and contemporary answers to the problems of knowledge, reality, and morality through various primary source readings ranging from the pre-Socratics to Derrida.

HON 327 Great Books of American History (3) (Spring)

Provides an overview of North American History from the period surrounding European settlement to the present. Includes topics of European and Native American relations, the development of slavery, the American Revolution, and the Civil War, as well as the Progressive and New Deal eras, the World Wars, the Cold War, 1960s radicalism, and the rise of modern conservativism. Sources will range from Puritan sermons, Common Sense, and The Federalist Papers,

to slave and feminist writings, presidential speeches, and civil rights treatises.

HON 330 Great Books and the New Testament (3) (Fall)

A survey of all 27 books of the New Testament and their cultural impact. Exams the books in their 1st century context, the history of interpretation of the New Testament, and the Wirkungsgeschichte (German for "history of the influence") of the New Testament. Special attention given to significant interpreters of the New Testament throughout history, such as Augustine and Luther, and to the role the New Testament has played in doctrinal debates, the formation of ethical systems, spiritual formation, and artistic productions.

HON 334 Great Books of Christian Tradition (3) (Spring)

Explores biblical and Christian literature as influences of the faith and practices of various Christian traditions and communities, primarily within Western culture. Introduces the rich resources of Scripture and Christian tradition for practiced personal faith and life in the modern world. Emphasizes developing a prayerful and living biblical theology and examines pairs of matching texts (spiritual and literary classics) to explore themes of faith and practice.

HON 490 Senior Honors Project (0-3 credit hours)

Students in the honors program will register for this course in the semester they complete their honors project. If students register for a 490 course within their major or use a project within a different upper-level major course with instructor and honors program director approval, they must register for HON 490 for 0 credit hours.

HPR (Human Performance)

HPR 101 Personal Fitness and Wellness (2) (Fall, Interim, Spring)

Covers health-related fitness and the relationship between lifestyle, individual fitness level and chronic disease risk. Emphasis is given to cardiovascular health, nutrition and weight management, and stress reduction.

HPR 151 Introduction to Health, Human Performance, and Recreation (3) (Fall)

Explores the historical and philosophical bases of the physical education profession and examines social and educational trends impacting career options in exercise and sport. Majors should take HPR 153 Foundations of Physical Fitness, Health, and Wellness concurrently.

HPR 153 Foundations of Physical Fitness, Health, and Wellness (3) (Fall, Spring)

Comprehensive introduction to the assessment and development of physical fitness, health, and wellness, with emphasis on personal application and group leadership. Topics include all components of physical fitness, nutrition, stress management, cardiovascular disease, cancer, and metabolic disease.

HPR 163 Introduction to Sports Management (3) (Fall, Spring)

Explores important aspects of sports management and entertainment including current business-related topics of amateur and professional sports and the analysis of management and leadership skills. Topics include marketing strategies, advertising contracts, modes of communication, and revenue via radio, TV, and other digital means. Examines cost analysis related to sports teams and the role of the sports agent.

HPR 178 Aerobic Activities (2) (Spring)

Students gain competency in basic instruction of kickboxing, step, chair, water, line dance aerobics, aerobic games, and basic elements of exercise design and leadership, demonstrated through teaching experience.

Prerequisite: HPR 153 Foundations of Physical Fitness, Health, and Wellness.

HPR 179 Strength and Power Training (2) (Spring)

Introduces fundamental concepts in structuring strength and power training programs for individuals from youth through adulthood in the context of a wide range of training environments, from athletic to general fitness settings. *Prerequisite: HPR 153 Foundations of Physical Fitness, Health, and Wellness.*

HPR 201 Teaching Elementary Health and Physical Education (2) (Fall, Spring)

Meets health and physical education standards of the Michigan Department of Education for elementary certification. Addresses the health education standard (1.6) with its four competencies and the physical education standard (1.7) and its three competencies. Classroom and interactive activities included with pertinent peer practice teaching experience in both health and physical education. Cross listed EDU 201.

HPR 281 Nutrition and Exercise (2) (Sites)

Examines the nature and benefits of physical fitness in the adult years as well as nutrients and their role in maintaining optimal health and preventing disease. Emphasis is given to body composition, obesity, and energy balance, with attention to the scientific basis for modification of eating and exercise behaviors.

IBS (International Business)

IBS 223 Biblical Foundation of International Business (3) (Even Interims)

A survey course with a biblical foundation. Integrates business and Christian principles for students exploring a career that applies business skills and talents to advance God's kingdom. Examples from Scripture and global economy.

IBS 305 Principles of International Business (3) (Spring)

Explores key aspects of contemporary international business. Includes topics of international trade theory, trading patterns, foreign exchange rates and markets, strategic alliances, direct foreign investments, regional business issues, cultural, political and economic influences, and management practices. May include special topics in diversity and legal issues in international business, international marketing, and international finance.

IBS 385 Practicum (3) (Fall, Spring, Summer)

Completed in an organization with a global emphasis. Taken summer of the junior year or in the senior year.

MAT (Mathematics)

MAT 100 Introductory Algebra (3) (Fall)

Properties and operations of the real number system; word problems involving integers, fractions, or decimals including percentages, ratios, and proportions; graphical representations of equations including tables and charts, one-and two-variable equations, and inequalities; word problems involving one and two variables; operation and properties of algebraic expressions and polynomials; problems involving geometric figures. Does not count toward General Education mathematics pathway.

MAT 101 College Algebra (3) (Fall, Spring)

Topics include algebraic and geometric properties of linear, quadratic, polynomial, rational, radical, absolute value, exponential, logarithmic functions, linear inequalities in one and two variables, and solving systems of equations. Applications in many areas. Does not count toward mathematics major or minor. Satisfies mathematics pathway. Prerequisites: "C" or better in MAT 100 Introductory Algebra, or one year of high school algebra or geometry and ACT math score of 18 to 23/SAT Math Test sub-score of 24.

MAT 104 Mathematics for the Liberal Arts (3) (Interim, Spring, Online, Sites)

Emphasizes the great ideas of mathematics and how a mathematician looks at the world including rigorous thinking, number theory, infinity, geometry, the fourth dimension, topology, chaos, and fractals, etc.Incorporates "life lessons" to draw from the methods of doing mathematics.

Prerequisite: "C" or better MAT 100 Introductory Algebra with a "C" or higher or ACT 18 or higher/SAT Math Test subscore of 24 or higher.

MAT 112 Precalculus (3) (Spring)

Examines elementary functions to prepare students for the calculus sequence or courses in the sciences. Topics include properties of the real number system, inequalities and absolute value, functions and their graphs, solutions of equations, and polynomial, rational, radical, trigonometric, exponential, and logarithmic functions.

Prerequisite: "C" or better in MAT 101 College Algebra or three years of high school math including two years of algebra with at least a "B" average.

MAT 201 Calculus I (4) (Fall)

Examines the differentiation and integration of functions including parametric equations and polar coordinates, sequences and series including Taylor's formula, convergence tests, partial sums, and logistic and first order differential equations. Applications in both the physical and social sciences.

Prerequisite: "B" or higher in MAT 112 Precalculus or high school precalculus with at least a "B".

MAT 202 Calculus II (4) (Spring)

Differentiation and integration of functions defined by parametric equations including polar coordinates, and applications of the calculus in the physical and social sciences. Sequences and series including Taylor's formula and tests of convergence for sequences and series and determine the sum of an infinite series if it exists. Solve simple first order differential equations.

Prerequisite: "C" or better in MAT 201 Calculus I.

MAT 232 Proof and Discrete Structures (3) (Fall)

Functions, relations, sets, basic logic, proof techniques including mathematical induction, counting theory, graph and tree concepts, discrete probability, recurrence relations, algorithm development, and efficiency analysis. Cross listed CPS 232.

Prerequisite: "C" or better in MAT 112 Precalculus or high school math through precalculus with at least a "B" average.

MAT 302 Vector Calculus (3) (Fall)

Calculus of functions of two variables: limits, continuity, partial derivatives, chain rule, directional derivatives and the gradient, tangent planes and normals to surfaces, iterated integrals, cylindrical and spherical coordinates, curves in space, polar coordinates, line integrals, surface integrals, Green's theorem, Stoke's theorem, change of variable, Taylor's expansion, implicit function theorem, and Divergence theorem.

Prerequisite: MAT 202 Calculus II.

MAT 311 Differential Equations (3) (Spring)

Fundamental methods of solving differential equations of the first order, higher-ordered differential equations, both linear and nonlinear models, and solving systems of differential equations including phase plane analysis and the use of eigenvalues and eigenvectors and Laplace transform methods.

Prerequisite: MAT 202 Calculus II.

MAT 321 Abstract Algebra I (3) (Fall)

Structure of our number system. Topics such as rings, fields, and integral domains are covered.

Prerequisites: MAT 201 Calculus I and MAT 232 Proof and Discrete Structures.

MAT 322 Abstract Algebra II (2) (Odd Springs)

The structure of our number system with emphasis on group theory.

Prerequisite: MAT 321 Abstract Algebra I.

MAT 330 Foundations of School Mathematics I (3) (Fall)

Fundamental concepts of mathematics for prospective teachers of grades K-8. Topics include strands I, IV and V from Michigan Curriculum Framework: patterns, relationships and structures, number sense and numeration, numerical and algebraic operations, and analytical thinking. Does not count toward mathematics major or minor. "B-" required for education majors.

Prerequisite: EDU 140 Exploring Critical Skills for the Professional Educator.

MAT 331 Foundations of School Mathematics II (3) (Spring)

Fundamental concepts of mathematics for prospective teachers of grades K-8. Topics include strands II, III, VI from Michigan Curriculum Framework: geometry and measurement, data analysis and statistics, and probability and discrete mathematics. Does not count toward mathematics major or minor. "B-" required for education majors. *Prerequisite: EDU 140 Exploring Critical Skills for the Professional Educator.*

MAT 342 Foundations of Secondary School Mathematics (3) (Even Springs)

See EDU 342.

MAT 351 Statistics (3) (Spring)

Descriptive and inferential statistics including z- and t-tests for means and proportions, Chi-Square, ANOVA and regression. Topics from probability: sample space, events, additive rules, conditional probability, multiplicative rules, Bayes' rule, random variables, discrete and continuous probability distributions, expected value, and Chebyshev's theorem.

Prerequisite: MAT 101 College Algebra or MAT 201 Calculus I.

MAT 352 Linear Algebra (3) (Odd Springs)

Examines systems of linear equations and matrices, determinants, vector spaces, eigenvalues and eigenvectors, inner product spaces including the Gram-Schmidt process, and linear transformations.

Prerequisite: MAT 201 Calculus I.

MAT 363 Theory of Probability I (3) (Limited)

Topics include general probability (set functions including set notation and basic elements of probability, mutually exclusive events, addition and multiplication rules, independence of events, combinatorial probability, conditional probability – Non Bayes Theorem, Bayes Theorem/law of total probability), univariate probability distributions including binomial, negative binomial, geometric, hypergeometric, Poisson, uniform, exponential, chi-square, beta, Pareto, lognormal, gamma, Weibull, and normal (probability functions and probability density functions, cumulative distribution functions, conditional probability, mode, median, percentiles, and moments, variance and measures of dispersion, moment generating functions, and transformations.

Prerequisites: MAT 202 Calculus II and MAT 351 Statistics.

MAT 364 Theory of Probability II (3) (Limited)

Examines multivariate probability distributions including the bivariate normal (joint probability functions and joint probability density functions, joint cumulative distribution functions, central limit theorem, conditional and marginal probability distributions, and moments for joint, conditional, and marginal probability distributions), joint moment generating functions, variance and measures of dispersion for conditional and marginal probability distributions, covariance and measures of dispersion for conditional and marginal probability distributions, transformations and order statistics, and probabilities and moments for linear combinations of independent random variables. *Prerequisite: MAT 363 Theory of Probability I.*

MAT 401 Real Analysis (3) (Even Springs)

A rigorous treatment of the calculus of functions of one real variable. Formal proofs are given for the familiar theorems dealing with limits, continuity, differentiation, integration, sequences, and series. Special topics may include vector analysis, gamma functions, and Fourier analysis.

Prerequisite: MAT 232 Proof and Discrete Structures.

MAT 421 Modern Geometry (3) (Even Falls)

A general overview of elementary geometry appropriate for all math majors and required of secondary education math majors. Primary emphasis on Euclidean and non-Euclidean geometries with some discussion of finite, neutral, transformational, hyperbolic, and projective geometry. Consideration of historical development.

Prerequisites: MAT 202 Calculus II and MAT 232 Proof and Discrete Structures.

MAT 422 Seminar: Topics in Advanced Mathematics (1-3) (Limited)

Designed to meet the current needs of the mathematics majors. Examples of topics include an introduction to topology, projective geometry, complex variables, and partial differential equations.

Prerequisite: MAT 232 Proof and Discrete Structures.

MHS (Management of Health Care Systems)

MHS 231 Fiscal Management in Health Care Systems (3) (Online, Limited)

Covers health finance and the role of the health care manager with emphasis on the analysis of financial information in relationship to health care costs and fiscal planning. Various study areas include payment and reimbursement systems, expense and cost reporting, budget management, and the use of basic accounting principles.

MHS 342 Health Care Systems (3) (Online, Limited)

Examines delivery and evaluation of health care in a variety of structures, such as inpatient and outpatient facilities, long term care, and managed care utilizing a systems approach. Focus on the health care professional and basic health care components of health promotion, psychological wellness, and health services for special populations.

MHS 431 Administration of Health Care Systems (3) (Online, Limited)

Focuses on the mission, values, and goals of health care organizations and the role of the health care manager within administration and human resources. Topics include managing the health care workforce, team building, recruiting and retention of workers, and patients' rights and ethics faced in today's health care environment.

MHS 433 Health Care Systems Leadership (3) (Online, Limited)

Topics include leadership and motivational theory as well as discovering and maximizing various leadership styles. Vision-casting and motivational theory are applied to both individual and group situations.

MIS (Management Information Systems)

MIS 301 Information Technology Management (3) (Limited)

Introduction of organizations as systems, managerial decision-making processes, and the role of information technology and systems supporting management and operations.

Prerequisites: BUS 162 Business Computer Applications and CPS 202 Coding II.

MIS 403 Presentation of Data Analysis (1) (Even Springs)

Provides the tools and practice for students to communicate to prospective clients and other constituents in organizations in nontechnical terms the findings and insights gathered from data analyses. Emphasis will be on developing effective written and verbal presentation skills built on previous communication coursework.

MKT (Marketing)

MKT 207 Advertising (3)

See APR 207.

MKT 221 Marketing Principles (3) (Fall, Spring)

Functions and problems of the marketing process including financing, transportation, distribution, and some aspects of advertising and salesmanship. Students will be working with clients to put their knowledge and skills into practice.

MKT 231 Creativity and Innovation (3) (Limited)

Explores concepts of creative thinking and innovative decision making. Focuses on creative problem solving of marketing, public relations, and advertising situations, the marketing of new innovations, and exploration of the entrepreneurial stage of the product life cycle.

MKT 275 Sales (3) (Odd Falls)

Explores the theory, skills, and techniques for success in the field of sales, with emphasis on ethics and biblical values.

MKT 309 Advertising Strategies (3)

See APR 309.

MKT 340 Consumer Relations (3) (Even Springs)

Marketing strategy implications of consumer behavior, anthropology, economics, psychology, sociology, and the consumer.

MKT 341 Retailing (3) (Odd Springs)

Explores all activities involved in selling goods or services directly to final consumers. Topics include types and structures of retail operations, pricing and positioning stores in minds of consumers, marketing strategy for retailers, promotional strategies, growth of non-store retail and global retail operations.

MKT 347 Public Relations (3)

See APR 347.

MKT 452 Marketing Research and Design (3) (Odd Falls)

Covers defining, developing, and conducting marketing research, including the cultivation of critical thinking skills necessary to help determine an organization's competitive position and enhance the efficiency of products and services. Provides experience in research techniques including questionnaire design, focus groups, observational research, testing/sampling, results analysis, and statistical analysis of collected data.

Prerequisite: MKT 221 Marketing Principles.

Corequisite: BUS 351 Statistics. (May take prior to this course as a prerequisite.)

MKT 461 Marketing Strategy (3) (Even Springs)

Designed as a marketing capstone course, this course integrates content from previous coursework. Students develop competitive marketing strategies for various types of complex organizations.

Prerequisite: MKT 221 Marketing Principles.

MUS (Music)

MUS 105 Music Theory I: Literacy (3) (Fall)

Comprehensive study and application of the basic materials of music and the fundamentals of common practice harmony, with an emphasis on the development of analytical skills. Includes a survey of a wide range of musical styles and issues with an emphasis on cultural understanding and the challenges of preparing for a career in music. Practical application of the theory skills through ear training, sight-singing, error detection, and keyboard skills.

MUS 106 Music Theory II: Harmony (3) (Spring)

Expands study and development of the basic materials, fundamentals of common practice harmony, and analytical skills attained in MUS 105. Focus on chords and their construction, progression, and the principles of connection that govern them. Includes a study of traditional and contemporary music harmony, and student will build their own musical language. Includes a detailed examination of major and minor keys, scales, chords, voice-leading, and modulation. Emphasizes aural harmony as it relates to harmony and progression.

Prerequisite: MUS 105 Music Theory I: Literacy.

MUS 152 Music Foundations (2) (Fall, Interim, Spring, Online)

Survey of music literature and history focusing on critical listening and empathy. Covers works by significant composers in terms of design, place in history, and aesthetic impact. Field trips may be taken to provide a greater understanding of various music forms. Student may not take both MUS 152 and MUS 220. Counts toward General Education. Does not count toward music major or minor. Online not available to main campus students.

MUS 205 Music Theory III: Orchestration (3) (Odd Falls)

Continuation of the theory track to orchestration. Study of traditional orchestral techniques as they apply to contemporary musical settings, idiomatic writing, instrumental characteristics, and concise notation for instruments and voices. Utilizes computer software appropriate for creating mockups of large orchestral works. Students orchestrate projects for and work with live instrumentalists and vocalists. Students complete written dictation, error-detection, and transposition exercises.

Prerequisite: MUS 106 Music Theory II.

MUS 206 Music Theory IV: Advanced Harmony (3) (Even Springs)

Builds on previous levels of music theory and introduces compositional techniques pioneered in the 20th century European and American composers. Examines techniques through both classical and jazz/popular music contexts. Expands on harmony and scales, form, and advanced compositional and non-Western musical creation techniques. Includes aural harmony of chromatic, harmonic, and melodic elements.

Prerequisite: MUS 205 Music Theory III.

MUS 210* Applied Lessons (1) (Fall, Spring)

One half-hour applied lesson per week per credit hour. May register for 2 credit hours per semester. May not be taken for audit except for majors or minors in music. Students required to attend three music department concerts. *Corequisite: MUS 210YL Lab*

MUS 210B1 Applied Brass (1)	MUS 210M2 Applied Composition (2)
MUS 210B2 Applied Brass (2)	MUS 21001 Applied Organ (1)
MUS 210C1 Applied Conducting (1)	MUS 210O2 Applied Organ (2)
MUS 210C2 Applied Conducting (2)	MUS 210P1 Applied Piano (1)
MUS 210D1 Applied Percussion (1)	MUS 210P2 Applied Piano (2)
MUS 210D2 Applied Percussion (2)	MUS 210S1 Applied Strings (1)
MUS 210G1 Applied Guitar (1)	MUS 210S2 Applied Strings (2)
MUS 210G2 Applied Guitar (2)	MUS 210V1 Applied Voice (1)
MUS 210H1 Applied Harp (1)	MUS 210V2 Applied Voice (2)
MUS 210H2 Applied Harp (2)	MUS 210W1 Applied Woodwinds (1)
MUS 210M1 Applied Composition (1)	MUS 210W2 Applied Woodwinds (2)

MUS 210YL Lab (0) (Fall, Spring)

Student performances in a master class format and presentations by guest artists. All students registered for MUS210 Applied Lessons are required to be enrolled in this lab class. Attendance at music labs can count towards the additional event attendance requirement. Students can perform in these labs with permission of their instructor. Graded "S"/"U." *Corequisite: MUS 210* Applied Lessons*

MUS 212 Music Production I (2) (Spring)

Explores the complex software of digital audio workstations through exercises and projects designed to strengthen technical understanding and heighten creative abilities in music production. Examines sound recording and playback, multichannel recording, sound synthesis, mixing, and digital sound effects.

MUS 220 Music Appreciation (3) (Online)

The student gains a thorough exposure to musical literature through extensive listening to examples of music by significant composers. Details of the lives of these composers are placed in historical perspective. During the course, a foundation is laid for a lifelong process of discovery and enjoyment of music. Students may not take both MUS 152 and MUS 220. Does not count toward music major or minor. Main campus students may not take MUS 220.

MUS 230* Instrumental Groups and Ensembles (1) (Fall, Spring)

MUS 230B Brass Ensemble

MUS 230C Concert Band

Performs standard band literature including marches, contemporary composition, transcribed orchestral literature, and combined band and choral literature. Periodic public appearances are required. Open to interested and reasonably competent musicians. Placement is determined by audition or permission of instructor.

MUS 230D Percussion Ensemble

MUS 230F Flute Choir

MUS 230G Guitar Ensemble

MUS 230H Horn Ensemble

MUS 230R Clarinet Ensemble

MUS 230X Sax Ensemble

MUS 230J Jazz Ensemble

A 20-member group that performs big-band and jazz-oriented compositions. Membership is open by invitation and/or audition.

MUS 230S String Orchestra

A string orchestra performing a variety of music from the Baroque, Classical, Romantic and Contemporary periods. Membership is open by invitation or audition to students and community members with sufficient experience in violin, viola, cello or bass.

MUS 240* Choral Groups (1) (Fall, Spring)

MUS 240CC Chamber Choir

The University's select mixed ensemble performs a variety of literature (sacred and secular) for churches, schools and civic groups, and tours in selected years. Members are required to participate in both the fall and spring semesters unless prior permission is given to register for only one of the semesters. The Chamber Choir rehearses on Tues., Thurs. and Fri. from 2:40-3:40. Audition required.

MUS 240US University Singers

A mixed ensemble that performs a variety of literature, both sacred and secular. Two on-campus concerts are given each semester with additional performance opportunities as they are presented. No audition required.

MUS 250 Practicum in Pedagogy (1) (Fall, Spring)

The "student teaching" segment of the piano or vocal pedagogy courses in the A.P.P. program or vocal pedagogy concentration in the music major. Includes instruction and record-keeping of lessons with one or two students and observation by and follow-up meetings with supervising faculty throughout the semester. A final paper is required. Prerequisites: enrolled in the A.P.P. program or a vocal pedagogy concentration in a music major, MUS 309 Piano Pedagogy or MUS 311 Vocal Pedagogy with a "B" or higher

MUS 308 Survey of Keyboard Literature (2) (Odd Springs)

Survey of keyboard literature and composers from the late 1500s through the 1900s and an in-depth study of the various style characteristics and performance practices of literature surveyed.

Prerequisite: MUS 105 Music Theory I: Literacy or permission.

MUS 309 Piano Pedagogy (3) (Odd Interims)

Methods and techniques used in teaching piano. Emphasis on study of materials available. Required for keyboard majors and associate in piano pedagogy majors.

Prerequisites: audition and/or two semesters of applied piano.

MUS 310* Applied Lessons (Fall, Spring)

One half-hour applied lesson per week for one semester hour of credit. Applied lessons may not be taken for audit. Two-credit (one clock hour) lessons must have the approval of the music department. Students will be required to attend 10 music department concerts (MUS310YL). Open only for music majors and minors.

Corequisite: MUS 310YL Lab.

MUS 310B1 Applied Brass (1)	MUS 31001 Applied Organ (1)
MUS 310B2 Applied Brass (2)	MUS 310O2 Applied Organ (2)
MUS 310C1 Applied Conducting (1)	MUS 310P1 Applied Piano (1)
MUS 310C2 Applied Conducting (2)	MUS 310P2 Applied Piano (2)
MUS 310D1 Applied Percussion (1)	MUS 310S1 Applied Strings (1)
MUS 310D2 Applied Percussion (2)	MUS 310S2 Applied Strings (2)
MUS 310G1 Applied Guitar (1)	MUS 310V1 Applied Voice (1)
MUS 310G2 Applied Guitar (2)	MUS 310V2 Applied Voice (2)
MUS 310H1 Applied Harp (1)	MUS 310W1 Applied Woodwinds (1)
MUS 310H2 Applied Harp (2)	MUS 310W2 Applied Woodwinds (2)
MUS 310M1 Applied Composition (1)	

MUS 310YL Lab (0) (Fall, Spring)

MUS 310M2 Applied Composition (2)

Student performances in a master class format and presentations by guest artist. Attendance at all music labs is required, and students must perform in at least two labs per semester. Graded "S"/"U." *Corequisite: MUS 310* Applied Lessons.*

MUS 311 Vocal Pedagogy (2) (Odd Springs)

Methods and techniques used in teaching voice. Emphasis on study of the anatomy involved in vocal production. Required for music education majors.

Prerequisite: two semesters of Applied voice.

MUS 312 Diction (3) (Even Springs)

Elementary singing pronunciation techniques in English, Latin, Italian, French, and German. Students prepare songs in all five languages. Required of vocal education majors and vocal performance majors.

Prerequisite: two semesters of applied voice.

MUS 313 The History and Literature of Music to 1750 (3) (Even Falls)

Survey of the history and literature of music. Emphasis on style, periods, composers, and form. Covers medieval through baroque periods.

Prerequisite: MUS 106 Music Theory II: Harmony.

MUS 314 The History and Literature of Music since 1750 (3) (Odd Falls)

Survey of the history and literature of music. Emphasis on style, periods, composers, and form. Covers classical through 20th Century.

Prerequisite: MUS 106 Music Theory II: Harmony.

MUS 315 Music Production II (4) (Odd Falls)

Continuation of MUS 212. Students work independently and in groups to produce large audio projects such as an album of original or cover songs, a recording of an original composition or a video game soundtrack. Covers sequencing, recording, mixing, mastery of digital audio and MIDI, and distribution.

Prerequisite: MUS 212 Music Production I.

MUS 319 Methods and Materials for Teaching Music in the Elementary School (3) (Even Falls)

Principles, methods, and materials for teaching general vocal and instrumental music in elementary schools. Includes 20 hours of clinical and field experience. "B-" or better required. Cross listed EDU 319.

Prerequisites: SOE admission, 2.0 ("C") or better in EDU 202 Issues and Trends in American Education and EDU 230 Educational Psychology, or ECE 266 Early Child Growth and Development and EDU 267 Early Adolescent Development.

MUS 323 World Music (2) (Even Interims)

A survey of traditional music outside the Western Classical heritage, including genres from Africa, South America, East Asia, the South Pacific, the Middle East, and Europe. Special emphasis is given to the role of music within culture.

MUS 324 Vocal Literature (2) (Odd Falls)

Survey of vocal literature and composers from the late 1500s through the 1900s and in-depth study of the various style characteristics and performance practices of literature surveyed.

MUS 325 Scoring for Media (2) (Odd Springs)

Focus on aesthetics, terminology, procedures, and technical aspects of film scoring. Application of these skills in scoring a short film.

Prerequisites: MUS 212 Music Production I and MUS 206 Music Theory IV: Advanced Harmony.

MUS 332 Brass Methods (1) (Odd Falls)

Explores playing and teaching techniques of brass instruments. Some skill on various instruments is expected. *Prerequisite: MUS 106 Music Theory II: Harmony.*

MUS 333 Percussion Methods (1) (Odd Springs)

Explores fundamental techniques of playing and teaching the percussion instruments. Minimal proficiency on the various instruments is expected.

Prerequisite: MUS 106 Music Theory II: Harmony.

MUS 336 String Methods (1) (Even Falls)

Explores fundamental techniques of playing and teaching the string instruments. Minimal proficiency on the various instruments is expected.

Prerequisite: MUS 106 Music Theory II: Harmony.

MUS 337 Woodwind Methods (1) (Even Springs)

Explores fundamental techniques of playing and teaching the woodwind instruments. Minimal proficiency on the various instruments is expected.

Prerequisite: MUS 106 Music Theory II: Harmony.

MUS 338 Survey of Instrumental Techniques (2) (Odd Falls)

Study of basic performance and pedagogy skills for wind, string, and percussion instruments.

MUS 341 Marching Band Materials and Methods (1) (Odd Interims)

Specialized study of the techniques and skills associated with the preparation and management of marching bands, including organization, show design, music arranging, teaching of marching fundamentals, and rehearsal of marching routines and show music. Also included will be specific instruction on working with percussion sections and auxiliary units. Required for instrumental music education majors.

MUS 349 Methods and Materials for Teaching Music in the Secondary School (3) (Odd Falls)

Procedures for teaching vocal and instrumental music in the secondary school, as well as philosophy and principles of secondary school music curriculum design. Emphasis on organization, administration and pedagogy for ensemble instruction. Includes 20 hours of clinical and field experience. Cross listed EDU 349. "B-" or better required.

Prerequisites: SOE admission, and "C" or better in each EDU 202 Issues and Trends in American Education, EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development, and EDU 267 Early Adolescent Development.

MUS 363 Conducting (2) (Even Falls)

Fundamentals of choral and instrumental conducting with emphasis on gestures, score study, and rehearsal methods. *Prerequisite: MUS 106 Music Theory II: Harmony.*

MUS 386 Junior Recital (0) (Fall, Spring)

Requirement for music majors in preparation for MUS 486 Professional Recital.

MUS 390 Independent Study (1-4) (Limited)

A research project for music majors in their junior or senior year. Project should involve research into the history, pedagogy, or performance practices of their principal instrument. Variable credit approved by instructor.

MUS 461 Rehearsal Strategies (2) (Even Springs)

A capstone course for music education majors prior to student teaching. Topics include advanced conducting, artistic decision-making, rehearsal planning and organization, error detection in the rehearsal setting, motivational aspects for performing ensembles, and ensemble evaluation as an adjudicator.

Prerequisite: MUS 363 Conducting.

MUS 480 Theory Seminar (2) (Even Falls)

Application of music theory skills to advanced topics including detailed analysis of extended works, orchestration, arranging, and composition.

Prerequisite: MUS 206 Music Theory IV: Advanced Harmony.

MUS 486 Professional Recital (0) (Fall, Spring)

Graduation requirement for all music majors. Graded "S"/"U."

Prerequisite: MUS 386 Junior Recital.

MUS 487 Piano Proficiency (0) (Fall, Spring)

Graduation requirement for all music majors. Graded "S"/"U."

NSC (Natural Science)

NSC 200 Elementary Science Survey – Science by Inquiry (4) (Fall)

A survey course of life science, physical science, and earth/space science taught in an inquiry format. Students learn science concepts through inquiry-based activities as well as more traditional teaching methods. Technology activities are integrated into the science conceptual material. Ability to work independently and responsibly is essential. "B-" or better required.

Prerequisites: teacher education only, sophomore status.

NUR (Nursing)

NUR 200 Medical Terminology (2) (Interim Online)

Introduces medical terminology as the study of principles of medical word building to help students develop the extensive medical vocabulary used in health care occupations. Provides a thorough grounding in basic medical terminology through a study of root words, prefixes, and suffixes. Focuses on correct pronunciation, spelling, and use of medical terms. Covers anatomy, physiology, and pathology of disease.

NUR 201 Fundamentals of Nursing (4) (Fall)

Introduces basic nursing skills; a brief overview of the history of nursing; contributions of selected nursing leaders; the influence of social change on the development and image of the profession; the diversity of today's nursing roles and practice settings; and ethical, legal, and political considerations related to the profession. "B-" or better required. *Corequisite: NUR 201L.*

NUR 203 Physical and Health Assessment (3) (Fall)

Provides the framework for preparing students to perform comprehensive health assessments on patients across the lifespan. Presents the theoretical foundation for basic assessment and nursing skills. Emphasis placed on nursing history; performing physiological, psychological, sociological cultural, and spiritual assessment; and identifying stressors and health risks. Includes lab to practice assessment skills on adult patients. "B-" or better required. *Corequisite: NUR 203L.*

NUR 321 Professionalism/Professional Values (3) (Online)

Develops and strengthens core professional values by emphasizing the pursuit of practice excellence. Examines the ANA Standards & Scope of Nursing Practice and Ethical Code for Nurses as well as professional associations and regulating bodies. Explores the role of nursing theory to guide practice and provides foundational professional concepts in legal, ethical, and patient-centered care in preparation for future courses across the educational continuum and roles in advanced practical nursing. "C" or better is required to progress in the program.

NUR 324 Community Health Theory/Clinical (4) (Spring)

Focuses on meeting the wholeness needs of families, groups, and communities. The nursing process is applied to select problems in the community and the needs of select populations. Students practice family and community client assessment and provide holistic care for these groups in appropriate/applicable settings. "B-" or better required. *Corequisite: NUR 324L*.

NUR 325 Medical Surgical Theory/Clinical I (6) (Spring)

Assists students in applying principles from nursing, basic sciences, and liberal arts in care to adult clients through the nursing process. Students practice caring behaviors and promote and maintain client adaptation/wholeness with more complex needs, including disturbance in nutrition, oxygenation, metabolism, and loss of body integrity. Laboratory and client care experiences in institutional settings where students utilize assessment and advanced psychomotor skills. Students are expected to establish and maintain therapeutic relationships, begin educating and advocating for clients, and collaborate with other members of the health care team. "B-" or better required. *Prerequisites: "B-" in NUR 201 Fundamentals of Nursing and NUR 203 Physical and Health Assessment. Corequisite: NUR 325L.*

NUR 326 Medical Surgical Theory/Clinical II (6) (Fall)

Laboratory and client care experiences in institutional settings. Students utilize their assessment and advanced

psychomotor skills and are expected to establish and maintain therapeutic relationships, to begin educating and advocating for clients, and to collaborate with other members of the health care team. "B-" or better required. Prerequisite: "B-" in NUR 325 Medical Surgical Theory /Clinical I.

Corequisite: NUR 326L.

NUR 327 Mental Health Theory/Clinical (4) (Spring)

Focuses on the use of nursing process in the application of psychiatric/mental health principles. Students are exposed to a variety of therapies and nursing roles in the care of clients with alterations in mental health. Clinical application takes place in a variety of community and institutional mental health settings. "B-" or better required. *Corequisite: NUR 327L.*

NUR 328 OB and Women's Health Theory/Clinical (5) (Fall)

A theoretical basis for the application of the nursing process to families in the childbearing cycle, including families experiencing altered responses. Emphasis on caring, promotion, maintenance, and restoration through examination of families' antepartal, intrapartal and postpartal experience, including care of the newborn. Covers a holistic approach to learning the physical, emotional, spiritual, psychosocial, and cultural aspects of women's health. Application takes place in outpatient settings and birthing centers. "B-" or better required. *Coreguisite: NUR 328L.*

NUR 329 Pediatric Theory/Clinical (5) (Fall)

Emphasizes the use of the nursing process in caring for families as they respond to well and ill children. Designed to enhance the knowledge base of students in pediatric nursing and provide opportunities to deliver comprehensive nursing care. Includes clinical application in a variety of settings. "B-" or better required.

Corequisite: NUR 329L.

NUR 341 Patient-centered Care I (3) (Online)

Focuses on gerontology that utilizes the principles and techniques of holistic nursing assessment and care planning guided by evidence-based interventions and nursing theory. Explores the ways an aging population affects the health care system and nursing practice. Nursing assessment incorporates review of systems, health promotion, preventative care need and palliative care planning. Simulation is introduced.

NUR 344 Clinical Prevention/Population Health (3) (Online)

Discusses theory and concepts of community/public/global health, including health care systems in transition, health policy, and epidemiology. The Community Health Nurse's (PH/CHN) partnership with the community in health promotion, disease, and injury prevention and population health are applied to patient scenarios. Students utilize teaching, learning, and behavioral change theories and concepts to plan care.

NUR 360 Information Management/Patient Care Technologies (3) (Online)

Emphasizes the use of technology and information systems for clinical decision-making. Emphasizes skills necessary to use information management and patient care technologies safely and effectively. Explores quality improvement information systems that monitor patient outcomes, required regulatory reporting, and ethical and legal issues related to the use of IT, including copyright, privacy, and confidentiality.

NUR 422 Spiritual Dimensions of Health Care (3) (Online)

Examines the increasing emphasis on spiritual well-being and healing environments as elements of health care. Explores techniques and emphases from a Christian perspective. Students complete a spiritual assessment and care plan using the nursing process.

NUR 424 Medical Surgical Theory/Clinical III (6) (Spring)

Focuses on care for clients and families across the life-span who are experiencing major and life-threatening disturbances in wholeness. Explores application of crisis theory, adaptation theory, and principles of critical care within the context of the nursing process. Clinical includes direct care to clients with complex wholeness needs and observational experiences in a variety of settings. "B-" or better required.

Prerequisite: "B-" in NUR 326 Medical Surgical Theory/Clinical II

Corequisite: NUR 424L

NUR 425 Nursing Leadership and Transition (5) (Spring)

Explores the nurse's role as leader and manager in client care, the nursing care delivery system, and the health care system. Students are expected to assess their own philosophies of leadership and nursing care management. Designed to help students prepare for the transition into professional nursing practice. "B-" or better required.

NUR 426 Evidence-based Practice (4) (Fall Online)

Designed to guide students to identify practice issues, appraise and integrate evidence and evaluate outcomes. Students learn the value of EBP, models for applying evidence, and the basic difference between qualitative and quantitative research methods. Explores rights of human subjects and the nurse's advocacy role in research studies. Library databases are used to collect strong evidence for EBP decisions. Students learn to identify the necessary components of good research and critically appraise research articles. "B-" or better required. *Prerequisite: HES 351 Statistics*

NUR 434 Quality Leadership (3) (Online)

Focuses on the professional nurse's role in applying the principles of leadership and management to navigate systems in health care organizations across the continuum of care. Explores the nurse leader's role in quality and safety, the regulatory environment, policy, and advocacy for EBP. Provides opportunities to improve critical reasoning, interdisciplinary communication techniques, and conflict resolution. Practical application of change management and conflict resolution theories.

NUR 442 Patient-centered Care II (3) (Online)

Investigates evidence-based health techniques for disease prevention, health promotion, and self-management of chronic conditions. Explores adult assessment and health history interview techniques through simulation. The assessment findings are used to formulate a holistic, culturally sensitive health promotion plan and apply a theorist as a basis for care. Focuses on effective communication in facilitating client movement toward health and wellness.

NUR 443 NCLEX Review (3) (Spring)

Taken in the last semester before graduation. Designed to provide senior nursing students the opportunity to review theoretical and clinical material in preparation for the NCLEX. Students will learn critical thinking skills and appropriate testing strategies to enable them to successfully pass the NCLEX. "B-" or better required.

NUR 452A Evidence-based Practice I (1) (Online)

Guides students to identify practice issues, appraise and integrate evidence, and evaluate outcomes. Students learn the value of EBP models for applying evidence and the basic difference between qualitative and quantitative research methods. Explores the rights of human subjects, the advocacy role of the nurse in research studies, and library databases for collecting strong evidence for EBP decisions. "C" or better required.

NUR 452B Evidence-based Practice I (1) (Online)

Students learn to identify the necessary components of good research and critically appraise research articles. "C" or better required.

NUR 452C Evidence-based Practice I (1) (Online)

Databases are explored to collect evidence for a topic suitable for the senior project and the literature review is initiated. "C" or better required.

NUR 453A Evidence-based Practice II (1) (Online)

Reviews basic elements and concepts of the research process including levels of measurement, measurement tools, data presentation, and descriptive statistics. NUR 453A, B, and C fulfill the math General Education requirement.

NUR 453B Evidence-based Practice II (1) (Online)

Practice with Excel for statistical equations in preparation for the utilization of nursing research and data to make evidence-based practice changes. Integration of the most widely used statistical methods and the use of Excel promotes deeper understanding within the context of health care research and evidence based nursing practice. NUR 453A, B, and C fulfill the math General Education requirement.

NUR 453C Evidence-based Practice II (1) (Online)

Additional concepts of statistical analysis and major epidemiological study designs are explored. Statistical concepts are applied to evidence based nursing practice. NUR 453A, B, and C fulfill the math General Education requirement.

NUR 494 Senior Nursing Project (2) (Online)

Provides students with the practical experience of applying and integrating the concepts and theories learned so far in the program. Students assess and identify a patient safety or care process problem, a practice discrepancy, or an educational need supported by research. Students develop a research question and complete a comprehensive literature review, scholarly paper, and present findings in a poster presentation. "C+" or better required.

ORM (Organizational Management)

ORM 368 Financial Resources Management (3) (Video Conference, Online)

Examines the basic concepts of financial management, commonly used financial terms, development of financial statements, and the integral role financial management plays corporate business strategy. Topics include balance sheets, income statements, statement of cash flows, annual reports, financial ratios, time value of money, breakeven calculations, and annual budget.

ORM 403 Organizational Behavior (3) (Video Conference, Online)

Examines key theories within the field of organizational behavior and their practical implications. Considers organizational, group, and individual-level behaviors. Topics explored include leadership styles, performance, motivation, group dynamics, interpersonal relationships, and other related sub-topics.

ORM 405 Leadership Development (3) (Video Conference, Online)

Examines various theories and approaches to leadership and their applications/implications in a managerial setting. Topics explored include servant leadership, contingency theory of leadership, traits of effective leaders, and the comparison of management versus leadership.

ORM 411 Project Management (3) (Video Conference, Online)

Examines principles of project management as part of leading contemporary organizations. Students learn to lead and manage projects to bring tangible results to organizations and examine best practices, helping them gain practical skills to employ for organizational success and personal career advancement.

ORM 412 Lean Management (3) (Video Conference, Online)

Students gain lean management skills from the best of both manufacturing and service industries. Originated from Japan under the name Kaisen, lean management has become a state-of-the-art tool for continuous improvement and quality management through systematic elimination of waste and strategically creating values for the end customers. Students examine best practices that they can employ readily for organizational success and personal career advancement.

ORM 413 Organizational Diagnosis and Consulting (3) (Video Conference, Online)

Examines consulting practices to facilitate organizational change and the role and functions of organizational consultants. Topics include assessing organizations, diagnosing problems that hinder growth, presenting solutions within organizational constraints, and evaluating the outcomes of the solution.

ORM 432 Human Resource Management (3) (Video Conference, Online)

Explores concepts and theories of human resource management necessary for understanding and applying principles and practices related to planning, recruitment, selection, utilization, and labor relations. Special attention is given to the legal environment and to management and human resources supervisory issues. Accomplishing human resource management functions in different-sized organizations will be considered.

ORM 443 Organizational Design and Strategy (3) (Video Conference, Online)

Examines the history, dynamics, and current state of organizational design, strategy, and leadership. Topics include organizational structure, decision-making, environmental issues, and corporate social responsibility.

ORM 462 Organizational Change (3) (Video Conference, Online)

Examines organizational change concepts necessary for identifying an organization's systems and recognizing organizational influences in order to research and develop an effective written formal business proposal which is orally presented to the instructor and learning group.

PHI (Philosophy)

PHI 200 Introduction to Philosophy (3) (Fall, Spring, Sites, Online)

Introduction to logic, philosophy of science, and traditional and contemporary answers to the human problems of knowledge, reality, and morality.

PHI 210 Survey of Worldviews (3) (Limited)

Introduces and examines the major belief systems found in our contemporary world: theism, deism, naturalism, nihilism, existentialism, Islam, eastern religious thought, new age teaching, post-modernism, and other beliefs as reflected in pop culture. Explores non-western views of reality found in much of the world (animism/Spiritism) and compares to the western secular worldview.

PHI 301 Great Thinkers of the Western World (3) (Even Springs)

A survey of the greatest minds and ideas through the history of the Western World. Introduces prominent thinkers from the Pre-Socrates to the 21st century. Examines Plato, Aristotle, Augustine, Aquinas, Descartes, Hume and Kant, pragmatism, positivism, and existentialism through discussion and primary source readings.

Prerequisite: PHI 200 Introduction to Philosophy or PHI 210 Survey of Worldviews.

PHI 314 Ethics (3) (Spring, Online)

Analyzes selected current and vital, moral problems such as those in medical, legal, and political ethics; race, sex and other forms of discrimination; the impact of technology in human values; war and peace; and poverty and hunger. Topics vary with concerns of students. Ethical resources are the great philosophers as well as Christian thinkers. It is advisable for students to complete PHI 200 Introduction to Philosophy or equivalent prior to taking this course for adequate prerequisite knowledge needed for course success.

PHI 316 Western Political Thought (3) (Even Falls)

See POL 316.

PHI 318 War and Peace (3) (Odd Springs)

Considers the question of the ethics of war and violence from a biblical, theological, and historical perspective and examines the biblical and theological criteria and arguments surrounding war and violence. The Pacifist tradition and Just War tradition will be central to the discussion. Recent and current global events are considered, as well as practical application for faithful, Christian living in church and society.

PHI 334 Critical Thinking (3) (Even Springs)

Introduction to epistemology; critical thinking; basic reasoning, logic, and rhetoric; argumentative essay writing; and oral presentation. Examines epistemological theory, language theory, common fallacies, deductive and inductive reasoning, and the evaluation of evidence and credibility of arguments.

Prerequisite: PHI 200 Introduction to Philosophy or PHI 210 Survey of Worldviews.

PHI 381 Philosophy of Religion (3) (Odd Falls)

Evaluates the ideas of religion in a philosophical manner; the reliability of the theistic hypothesis; the nature of acceptable evidence and the possibility of religious knowledge; and alternatives, positions, and key problems of freedom, determinism, and evil.

Prerequisite: PHI 200 Introduction to Philosophy or PHI 210 Survey of Worldviews.

PHI 394 World Religions (3)

See REL 394.

PHI 401 Philosophy of Science (3) (Limited)

Examines the relationship between the Christian faith and the natural sciences. Covers a range of topics from evolution and creationism to stem cell research and genetic modification. Besides exploring the theoretical roots, this course will have a pragmatic component.

Prerequisite: PHI 200 Introduction to Philosophy or PHI 210 Survey of Worldviews.

PHI 402 Environmental Ethics (3) (Even Springs)

Introduces philosophical ethics through engagement with environmental issues such as population growth and resource use, sustainability, non-human and animal warfare, biodiversity loss, environmental justice, and global climate change. Students consider prominent questions and themes in environmental ethics, including a study of theoretical approaches to nature and animals and the place of human beings in the environment, as well as a number of issues that raise ethical questions in the context of environmental philosophy, such as ecojustice, pollution, consumption, economics, poverty, politics, education, place, lifestyle, restoration, and wilderness.

Prerequisite: PHI 200 Introduction to Philosophy or PHI 210 Survey of Worldviews

PHI 483 Seminar in Philosophy (3) (Limited)

In-depth study of particular problems in philosophy. A different topic will be chosen each time it is offered. *Prerequisite: 12 credit hours of philosophy or instructor's permission.*

PHI 490 Philosophy Honors Project (3-6) (Limited)

An opportunity for a student to do a significant project of scholarly productivity and/or research in philosophy. The student must have senior status and a GPA of 3.50 in the major.

PHY (Physics)

PHY 102 Conceptual Physics (4) (Odd Falls)

A liberal arts physics course emphasizing scientific literacy, modern physics, societal connections, and appropriate quantitative skills at a basic math level. Practical laboratory exercises.

PHY 120 Introduction to Earth Science (4) (Spring)

Surveys the earth's interior, surface, and atmosphere with emphasis on physical geology. Origin and identification of rocks, minerals, landforms, features of the ocean floor and currents, atmospheric circulation. Includes lab. Course fee.

PHY 131 Meteorology and Planetary Science (4) (Even Falls)

Includes a Christian perspective on the history and concepts of meteorology and planetary science. Labs cover the investigation of meteorological phenomenon in both a laboratory and real-world setting using data collected by students as well as data provided by governmental weather agencies. Lab fee included.

PHY 201 General Physics I (4) (Fall)

Trigonometry-based, classical physics with applications to the life sciences, including mechanics, thermodynamics, material properties and waves. Includes lab.

Prerequisites: MAT 101 College Algebra or MAT 112 Precalculus or equivalent high school course.

Corequisite: PHY 201L.

PHY 202 General Physics II (4) (Spring)

Continuation of PHY 201. Trigonometry-based, modern physics with applications to the life sciences. Topics include electromagnetism, optics, relativity, quantum physics, atoms, molecules, solids, nuclei, and quarks. Includes lab. *Prerequisite: PHY 201 General Physics I*

Corequisite: PHY 202L.

PHY 211 Modern University Physics I (4) (Fall)

Calculus-based, classical physics including mechanics, thermodynamics, and waves. Includes lab.

Corequisites: PHY 211L and MAT 201 Calculus I (MAT 202 Calculus II is recommended).

PHY 212 Modern University Physics II (4) (Spring)

Continuation of PHY 211. Calculus-based. Modern physics. Electromagnetism, optics, relativity, quantum physics, atoms, molecules, solids, nuclei, and guarks. Includes lab.

Prerequisite: "C" or better in PHY 211 Modern Physics I.

Corequisite: PHY 212L.

PHY 311 Electromagnetism (4) (Limited)

The phenomena of static and dynamic electromagnetic fields. Maxwell's equations developed and applied to various situations, including potentials due to conductors of different geometries, radiation, electromagnetic waves, waves in plasmas, and some topics from special relativity.

Prerequisite: PHY 212 Modern University Physics II (MAT 311 Differential Equations is recommended).

PHY 321 Intermediate Mechanics (4) (Limited)

Vector analysis, statics, and dynamics of rigid bodies, particle dynamics, central forces, and simple harmonic oscillators with emphasis placed on the mathematical modeling of physical motions.

Prerequisites: PHY 212 Modern University Physics II and MAT 311 Differential Equations.

PHY 349 Electronics (4) (Limited)

Introduction to electronic devices and circuitry. AC and DC circuits, instrumentation, diodes, transistors, sintransistor amplifiers, operational amplifiers, and selected specific devices. Includes lab.

Prerequisite: PHY 202 General Physics II or PHY 212 Modern University Physics II.

PHY 350 Intermediate Laboratory (3) (Limited)

Principles of experimental research, with problems and applications in the areas of atomic and nuclear physics. Covers experimental design, data acquisition, and reduction and reporting of results. Specific lab techniques, such as vacuum technology, with use of magnets and the use of electronic instrumentation.

Prerequisite: Permission of the instructor.

PHY 351 Heat and Thermodynamics (4) (Limited)

Thermal expansion, calorimetry, specific heat, change of state, heat transfer, thermodynamics laws, elementary kinetic theory and statistical mechanics, entropy, and other thermodynamic functions.

Prerequisites: PHY 212 Modern University Physics II and MAT 202 Calculus II.

PHY 372 Atomic and Nuclear Physics (4) (Limited)

Atomic and atomic/molecular spectra and structure, radiation detection, radioactivity, particle detection, nuclear structure, and related topics.

Prerequisites: PHY 212 Modern University Physics II and MAT 202 Calculus II.

POL (Politics)

POL 213 American National Government (3) (Fall, Online)

A study of the structure and direction of the federal system, concentrating on various overlapping aspects of the national government. Policy issues, such as welfare, preservation of the environment, social security, and foreign affairs are seen from the "top-down" point of view of national norms and their impact on other levels of government, individuals, and communities.

POL 214 State and Local Government (3) (Online)

A study of the structure and direction of state, county, and local governments, focusing on how they function together and how they relate to the national government. Examines how policy issues, such as welfare, the environment, social security, and zoning originate at "lower" levels, yet do so within the guidelines and constraints of the national agenda.

POL 230 Contemporary World Affairs (3) (Even Falls)

Examines contemporary events of the world, emphasizing critical use newspapers, journals of opinion, electronic media, and library materials. Discusses Christian perspectives and diverse views on current topics. Cross listed HIS 230.

POL 236 Christianity and Politics (3) (Odd Springs)

Examines ancient civilizations, especially Greece and Rome, as background to Christianity, and surveys key Christian individuals and movements, such as Roman Catholicism (Augustine/Aquinas), Luther, Calvin, Anabaptists, Wesleyans, Christian socialism, Conservatism, and Christian Coalition. Covers questions dealing with the nature of the state and what difference Christianity makes on public policy. Cross listed HIS 236.

POL 311 Comparative Government (3) (Odd Springs)

Examines political culture, behavior, and institutions of the governments of Great Britain, France, Germany, Russia, Japan, and selected other countries. Emphasizes geography and history as vital factors in understanding politics. Explores the government of one other sovereign state in the contemporary world. Compares political systems to lead students to consider the elements of a "good" government.

POL 312 International Relations (3) (Even Springs)

Examines the background of international politics and forces, organizations, and laws influencing international relations within the present state system.

POL 313 America in the 1960s (3)

See HIS 313.

POL 316 Western Political Thought (3) (Even Falls)

Covers approaches to building human community and organizing power developed by classic philosophers of antiquity: Plato, Aristotle, Augustine, and Aquinas, and by the fathers of contemporary social thought: Machiavelli, Hobbes, Locke, Rousseau, and Kant. Cross listed PHI 316.

POL 322 Globalization: International Economics in the Information Age (3)

See ECN 322.

POL 334 The Middle East (3)

See HIS 334.

POL 335 East Asia (3)

See HIS 335.

POL 351 Statistics for the Behavioral Sciences (3)

See PSY 351.

POL 352 Research Design (3)

See PSY 352. Prerequisite: POL 351.

POL 368 Diplomatic History (3)

HIS 368.

POL 412 Constitutional Law (3) (Even Falls)

A case approach to constitutional principles, organization of the U.S. judiciary, limits of state action, and protection of civil liberties.

POL 484 Spirituality, Faith, and Justice (3)

See SOC 484.

PSY (Psychology)

PSY 100 Introduction to Psychology (3) (Fall, Spring, Online, Sites)

Provides a broad, general introduction to the discipline of psychology. Topics include personality theory, psychophysiology, learning, developmental psychology, motivation, abnormal behavior, psychotherapy, and social psychology. Introductory psychology students will be exposed to the approaches of gathering and evaluating evidence

about the causes and correlates of behavior. Emphasizes the means by which psychological knowledge is, or can be, applied to improve the quality of individual and community life.

Prerequisite: ENG 104 College Writing (may be taken concurrently).

PSY 103 Psychology Seminar I (1) (Spring)

Introduces students to psychology as a science and professional discipline and the particulars of the psychology major. Students navigate a variety of methods to access scholarly resources needed for study in the field of psychology. Explores the relationship between psychology and the Christian faith.

PSY 203 Psychology Seminar II (1) (Fall)

A continuation of PSY 103 with additional activities that are designed to sharpen verbal and written communication, engage critical and creative thinking skills, increase self and other awareness, and focus on career plans.

PSY 240 Health Psychology (3) (Spring)

Focuses on current research on wellness through personal exercises. Students learn how to identify sources of stress and coping resources. Emphasizes how stress physiology impacts mental and physical health. Students conceptualize wellness as it relates to such fields as psychology, business, and athletics, which they apply to their personal lives. *Prerequisite: PSY 100 Introduction to Psychology.*

PSY 242 Death, Grief and Loss (3)

See SOC 242.

PSY 246 Substance Abuse and Society (3)

See SOC 246.

PSY 253 Forensic Psychology (3) (Spring)

Provides a broad perspective of the field of forensic psychology and covers the role that psychology has played in the legal system. Covers issues of morality, criminal suspect evaluation, jury selection, trial consultation, child custody evaluation, expert witness testimony, sexual offense or other dangerous behaviors, employment selection, and eyewitness identification. Students focus on an area of interest through a group research project. Cross listed CRJ 253. *Prerequisite: PSY 100 Introduction to Psychology.*

PSY 300 Infant and Early Childhood Development (3) (Fall)

Explores the healthy development of infants and young children (ages 0-8) and factors that influence fertilization and prenatal development. Examines biosocial, cognitive, and psychosocial aspects of development. Considers developmental disorders and evidence-based interventions.

Prerequisite: "C" or better in PSY 100 Introduction to Psychology.

PSY 301 Positive Psychology (3) (Fall)

Examines the scientific areas of the study and application of that which is good in people. Includes study of positive subjective experiences such as happiness, well-being, optimism, gratitude, forgiveness, and hopefulness. Examines character traits such as altruism and resilience.

Prerequisite: "C" or better in PSY 100 Introduction to Psychology.

PSY 303 Psychology Seminar III (1) (Spring)

A continuation of PSY 203 Psychology Seminar II with additional activities focused on ethical thinking. Students will also explore opportunities for internships and/or eventual plans after graduation.

PSY 305 Abnormal Psychology (3) (Fall)

Introduces students to the major psychological disorders with a primary focus on diagnosis, etiology, and treatment of abnormal behavior.

Prerequisite: PSY 100 Introduction to Psychology.

PSY 306 Middle Childhood and Adolescent Development (3) (Spring)

Focuses on the psychological, social, and physical development of middle childhood through adolescence, as well as

the major theories, concepts, and issues related to this age range. Students will have an opportunity to apply what they are learning to their own personal lives.

Prerequisite: PSY 100 Introduction to Psychology.

PSY 309 Lifespan Development (3) (Fall)

Provides students with an integrated approach to the biosocial, cognitive, and psychosocial aspects of human development across the lifespan and in a variety of multicultural contexts.

Prerequisite: PSY 100 Introduction to Psychology.

PSY 320 Psychology of Sport (3) (Limited)

Provides a broad perspective of the development of sport psychology and its application to the world of sport, performance, and exercise. Cross listed HES 320.

PSY 321 Cognitive Psychology (2) (Spring)

Introduces cognitive psychology through examining major cognitive psychology theories and research.

Prerequisite: PSY 100 Introduction to Psychology.

PSY 342 Application of Behavioral Principles (2) (Spring)

An exploration of behavioral learning principles and application of these learning principles for children and adults. Both research and effective intervention and treatment planning are emphasized.

Prerequisite: PSY 100 Introduction to Psychology.

PSY 351 Statistics for Behavioral Sciences (3) (Fall, Online)

Introduces applied statistics that uses statistical computer software. Includes types of variables (nominal, ordinal and interval/ratio), frequency and percentage distributions, graphical representations of data, measures of central tendency, dispersion and confidence intervals, hypothesis testing for statistical significance is done via CHI Square, t-tests (for independent and dependent samples), ANOVA, correlation, and simple linear regression. Multiple linear regression may be included. "C" or better required for social work majors. Cross listed POL 351, SOC 351, SWK 351.

PSY 352 Research Design (3) (Spring)

An overview of major research methodologies in the behavioral sciences, especially intended for psychology, sociology, social work, and political science majors. Introduces conceptualization and measurement, operationalization, construction of indexes, scales, typologies and sampling techniques, diversity issues, and research ethics. Covers basic methods for experiments, survey research, field research, program evaluation, and case studies. Centers around an original research project using APA Publication Manual guidelines. Uses MICROCASE computer statistical software curriculum. Cross listed POL 352, SOC 352.

Prerequisites: PSY 351 Statistics for Behavioral Sciences.

PSY 354 Social Psychology (3) (Spring)

Overview of how humans operate within a social context and the experimental research that contributes to an understanding of this phenomena. Emphasizes current research and methodology. Cross listed SOC 354. *Prerequisite: PSY 100 Introduction to Psychology.*

PSY 361 Play Therapy (3) (Even Springs)

Introduces play therapy through contemporary theories, a study of the neurobiology of play, directive and non-directive play, child psychopathology, and play interventions. Explores legal and ethical issues unique to play therapy, along with other play therapy topics.

Prerequisite: PSY 300 Infant and Early Childhood Development or PSY 306 Middle Childhood and Adolescent Development

PSY 362 Understanding Trauma and Developing Resiliency (2) (Fall)

Surveys trauma theory and explores the neurobiology of trauma. Covers various forms of trauma, emphasizing developmental and complex trauma and their long-term effects on the individual. Examines differentiating between resiliency and post-traumatic growth and models for fostering resiliency.

Prerequisite: PSY 100 Introduction to Psychology.

PSY 363 A Systems Approach to Helping Families (3) (Fall)

An introduction to understanding and helping families by examining theoretical concepts and current research of family systems; individual, couple, and family behaviors; family of origin; family roles; and societal perspectives of diversity and cultural variance related to family dynamics.

Prerequisite: PSY 100 Introduction to Psychology.

PSY 371 Organizational Behavior Management (3) (Odd Falls)

The systematic study of the actions and attitudes that people exhibit in organizations. The course will be taught from an interdisciplinary perspective and will focus on topics such as motivation, productivity, decision-making, communication, and leadership. Cross listed BUS 371 and SOC 371.

PSY 375 Psychology of Personality (3) (Odd Falls)

An intensive study of the major theories of personality with a primary emphasis on application to the students' personal experiences. Culminates with students formalizing their own theory of personality.

*Prerequisite: PSY 100 Introduction to Psychology.

PSY 380 Carol Lee Seminar (1)

See SWK 380.

PSY 385 Psychology Practicum (3) (Fall, Interim, Spring; by Application)

Practical experience in the field of psychology. Placement opportunities include working with children, adolescents, and adults in a variety of settings, or in human resources, research, animal behavior, organizational behavior, or other areas of psychology. Students may review a list of possible sites located in the Greater Jackson Area, or they may request a site of special interest (i.e. out of area, out of state, international) to be approved by the practicum director. Students are encouraged to participate in an area related to personal career goals. In addition to hours completed at the practicum site, students are responsible for maintaining timely communication with SAU faculty supervisor and completing paperwork and other assignment. Students must complete a total minimum of 4 credit hours (160 hours at the practicum site). Only 1 credit may be taken during any given interim, with the remainder to be taken in a contiguous semester. Applications due to the department no later than March 1 for summer or fall semesters and November 1 for interim or spring semesters. See Practicum Handbook for more information on policy and procedures. *Prerequisites: PSY 303 Psychology Seminar III and minimum of 18 earned credit hours in the major.*

PSY 403 Neuropsychology (4) (Fall)

Examines the physiological basis of behavior with an emphasis on the organization and function of the central nervous system. Studies psychopathology, emotion, sleep, sexuality, and stress from an anatomical and physiological viewpoint. The biological basis is applicable to many fields including clinical, abnormal, developmental, behavioral, and health psychology. Recommended for students preparing for the advanced GRE in psychology. Lab included. *Prerequisites: PSY 100 Introduction to Psychology and junior standing.*Corequisite: PSY 403L.

PSY 422 Counseling Psychology (3) (Spring)

A combination of various theories of counseling methodology and interviewing. *Prerequisites: PSY 100 Introduction to Psychology, junior standing.*

PSY 450 Psychology Internship (1-12) (Fall, Spring)

Must be approved by the department. Requires a minimum of 26 credit hours completed in the major. Specific readings, seminar requirements, and/or appropriate written assignments may be assigned by the instructor. Departmental guidelines for an internship may be obtained from the Psychology Department. Graded ""S"/"U." Application required.

PSY 460 Senior Research Project (3-6) (Fall, Spring)

Information and guidelines are available in the Psychology Department. Application required.

PSY 490 Honors Thesis (3-6) (Fall, Spring; by Application)

Provides an opportunity for students to do a significant project of scholarly productivity and/or research in the

student's major area of study. Ideally taken the semester directly following PSY 480 Thesis Prospectus. Prerequisite: PSY 480 Thesis Prospectus, senior standing, 3.5 major GPA, application

PSY 498 Capstone: Integration and Preparation (2) (Fall)

Designed to help psychology majors transition from undergraduate students to graduate school or a career in the field of psychology. Interactive seminar class focuses on the interface between the psychology field and Christianity. Emphasizes a review of psychological content, strong critical thinking skills, and dynamic communication skills. Students prepare a resume and portfolio and participate in mock job interviews. Explores graduate school application, admission interviews, and GRE information. Includes a comprehensive assessment of the field of psychology. *Prerequisite: PSY 352 Research Design or permission.*

RDG (Reading)

RDG 340 Emergent and Beginning Literacy (3) (Spring) See ECE 340.

RDG 356 Culturally Responsive Pedagogy (3) (Odd Falls)

Explores the theories and research in first and second language acquisition and reading, writing, listening, and speaking instruction of children with linguistic, cultural, ethnic, and racial differences. Students design a Family Literacy plan to enhance parent involvement and literacy development of all members of the family. Fieldwork includes interviews with learners at various stages of English language development, including a newly arrived immigrant student. Using information from those interviews, students develop appropriate instructional practices for teaching reading, listening, speaking, and writing for the interviewees. Students translate a newsletter into the native speaker's language and have their translation critiqued by a speaker of that language. "C" or better required. Prerequisites: SOE admission, "B-" or better in EDU 321 Teaching Reading and Language Arts in Primary Grades or EDU 322 Teaching Reading and Language Arts in Intermediate Grades.

RDG 361 Information Literacy (1) (Even Springs)

Addresses specific aspects of information literacy related to the teaching of reading, including engaging elementary school students in media-rich environments while helping them to grasp essential content. Course experiences help teacher candidates evaluate and select materials to develop literacy and then create strategies for elementary students to access and use such materials. Students create three media-enhanced genre selections accessible to elementary students and design an assessment to determine student understanding. TE candidates pilot the works and assessments with an elementary student and report outcomes. "C" or better required.

Prerequisite: SOE admission, EDU 360 Integrating Technology in Education (may be taken concurrently).

RDG 377 Young Adult Literature (3) (Odd Springs)

Provides broad exposure to quality classic, contemporary and multicultural young adult literature and non-fiction texts. Examines curricular and pedagogical issues salient to the adoption of contemporary text selections, such as identity, ethnicity, and gender. Students acquire sensitivity to the linguistic, historical, and cultural contexts for texts selected and identify key issues and reoccurring themes. Various instructional approaches will be explored, including reader response theory, comprehension strategies, and contemporary critical theories. Students will explore and develop strategies to enhance engagement and motivation in cross-curricular reading. Each TE candidate will develop and implement a lesson for a middle school student and determine appropriate modifications to the lesson based on feedback. "C" or better required for teacher education majors. Requires SOE admission.

RDG 424 Elementary and Middle School Reading Problems (3) See EDU 424.

RDG 426 Reading Interventions and Remediation (3) (Spring)

Focuses on reading intervention strategies and remediation based on assessment and diagnosis of reading difficulties in oral language, fluency, reading comprehension, vocabulary, and spelling. Students develop a field-based case study of an elementary or middle school reader, identify strengths and weaknesses of various components of reading, plan and execute interventions, and evaluate the child's response to intervention. Interventions include a balanced reading instruction approach and home-based connections based on the reader's needs. Students communicate the results of

the intervention response to the reader, family, and classroom teacher or specialist. Off-site case study required. Prerequisites: SOE admission, "B-" or better in EDU 424 Elementary and Middle School Reading Problems, and EDU 321 Teaching Reading and Language Arts in Primary Grades or EDU 322 Teaching Reading and Language Arts in Intermediate Grades

RDG 428 Teaching Writing for PK-6 Teachers (3) (Odd Falls)

Candidates explore research in writing, review the developmental stages of writing, examine writing processes and instructional strategies, and evaluate commercial writing programs. Candidates participate in the writing process to better understand how writers write, to create model texts for use with students, and to contribute to a classroom anthology. Candidates will be on-site, supporting elementary students with writing. Candidates will demonstrate a variety of Pk-6 writing instructional strategies using various genres and mentor texts. Grade "C" or better required. Prerequisites: SOE admission, "B-" or better in EDU 321 Teaching Reading and Language Arts in Primary Grades or EDU 322 Teaching Reading and Language Arts in Intermediate Grades.

RDG 439 Issues and Trends in Literacy Education (3) (Odd Springs)

Examines contemporary models for literacy learning and reading and traces the history and influences on the teaching of reading and reading practices relative to current issues and trends. Explores the effect of policies at the national, state, and local levels on staff and program development, text selection, and interpretation of student assessment for reading and language arts. Field experiences include an interview with a literacy specialist of K-12 administrator, attendance at school board meeting, professional development participation, and investigation of a literacy grant opportunity in partnership with a local school. Preferably taken after reading coursework. "C" or better required. Prerequisites: SOE admission, "B-" or better in EDU 321 Teaching Reading and Language Arts in Primary Grades or EDU 322 Teaching Reading and Language Arts in Intermediate Grades.

REC (Recreation)

REC 161 Backpacking and Wilderness Experience (1) (Fall, Spring)

Introduces students to knowledge, skills, and abilities for backpacking and wilderness experiences. Focuses on developing competency levels sufficient to teach, demonstrate, and lead the activity in a recreation and/or leisure setting.

REC 162 Kayaking (1) (Fall)

Introduces students to knowledge, skills, and abilities for kayaking. Focuses on developing competency levels sufficient to teach, demonstrate, and lead the activity in a recreation and/or leisure setting.

REC 163 High Ropes (1) (Even Springs)

Introduces students to knowledge, skills, and abilities for high ropes. Focuses on developing competency levels sufficient to teach, demonstrate, and lead the activity in a recreation and/or leisure setting.

REC 164 Low Ropes (1) (Odd Springs)

Introduces students to knowledge, skills, and abilities for low ropes. Focuses on developing competency levels sufficient to teach, demonstrate, and lead the activity in a recreation and/or leisure setting.

REC 165 Basic Rock Climbing (1) (Fall, Spring)

Introduces students to knowledge, skills, and abilities for basic rock climbing. Focuses on developing competency levels sufficient to teach, demonstrate, and lead the activity in a recreation and/or leisure setting.

REC 166 Bicycling (1) (Even Springs)

Introduces students to knowledge, skills, and abilities for bicycling. Focuses on developing competency levels sufficient to teach, demonstrate, and lead the activity in a recreation and/or leisure setting.

REC 171 Water Safety Instructor (2) (Limited)

Covers a range of educational methods for conducting swimming and safety courses on various levels. Emphasizes waterfront set up for campus and recreational facilities. American Red Cross certification can be earned.

REC 248 Lifeguard Training (2) (Limited)

Covers the skills and knowledge necessary in preventing and/or responding to aquatic emergencies. Includes waterfront lifeguarding module. American Red Cross certification can be earned.

Prerequisite: appropriate swimming skills.

REC 335 Facilities Planning and Operations for Health, Fitness, Recreation and Sports (3) (Even Falls)

Introduces planning, design, and operations processes in facility development. Covers an evaluation process required when planning, designing, and constructing facilities and establishing operations procedures. Cross listed HES 335. *Prerequisite: sophomore standing.*

REC 401 Grant Writing (2) (Limited)

Introduces grant writing, techniques used in the development of grant writing, and the funding and planning processes in developing grants in recreation and leisure areas and nonprofit organizations.

REC 424 Liability and Risk Management in Recreation and Leisure (3) (Even Springs)

Introduces legal issues related to risk and liability of operating recreation and leisure services. Covers protection of self and organizations from legal exposure by the identifying legal risks, evaluating risks, and implementing a risk management plan.

Prerequisite: junior standing.

REL (Religion)

REL 231 Introduction to Apologetics (1) (Interim)

Explores the purpose and practice of apologetics and traditional and recent answers to questions concerning Christian credenda, most particularly including God (existence, character), Jesus (life, divinity, resurrection) and the Bible (canon, textual criticism, veracity, authority).

REL 322 Introduction to Free Methodism (2) (Limited)

Examines the origin, organization, and doctrines of the Free Methodist Church. Open to any student but recommended for Free Methodist ministerial students.

REL 343 History of Christianity (3) (Even Falls)

Examines the era of the apostolic fathers, the councils, the church-state issues, scholasticism, the Reformation, and major leaders and movements of the modern era, including pietism, emergence of new theological patterns, social movements, and the missionary movement. Cross listed HIS 343.

REL 346 History of Christianity in America (3) (Limited)

Examines the origin and growth of Christianity in the U.S. from colonial times to the present. Cross listed HIS346.

REL 394 World Religions (3) (Online)

Survey of the theories of the origin of religion. Comparative study of the history of the development and teachings of the leading religions of the modern world. Cross listed PHI 394.

SDL (Student Development and Learning)

SDL 100 Introduction to Academic Programs (1) (Fall)

Introduces students to the academic programs at Spring Arbor University as they discern their career aspirations and options so they can pursue future opportunities that match their skills, talents, and interests, which align with their response to God's calling on their lives. Utilizes a variety of inventories and assessments in order to guide students towards understanding themselves as well as occupational fields, trends and demands.

SDL 110 Introduction to Leadership Development (1) (Spring)

Explores various leadership concepts within the context of biblical servant leadership. Explores skills necessary to become an effective Christian Leader. Students have the opportunity to discover and develop their own skills/gift repertoire, and practice and apply course content through various SAU student leadership opportunities.

SDL 120 Life/Work Planning (1) (Fall, Spring)

Prepares students for success after graduation. Through various teaching methods, students will be guided through steps to pursuing work opportunities within a desired career field. Also provides insight into practical areas of life outside of work.

SDL 200 Bridging the Gap: Dialogue across Difference—Criminal Justice Reform (3) (Interim)

Cross campus exchange to practice dialogue skills across political, cultural, and experiential differences, with students from Oberlin College. Students will practice listening deeply, seeking to understand, hearing across lines of difference, and seeking common ground without attempting to change minds or compromising deeply held values. Offers tools to go beyond the headlines, create constructive tension, understand shared humanity, develop practices of effective communication, and solve pressing problems with those of different backgrounds and beliefs. Includes site visits with a broad range of criminal justice stakeholders in Michigan. Participants develop proposals for criminal justice reform, integrating bipartisan perspectives.

SED (Special Education)

SED 200 Foundations in Special Education (3) (Spring)

Focuses on exceptional learners and special education in context. Candidates will acquire knowledge of educational policies, practices, and design of individualized programs. Emphasis will be placed on how to serve students under the federally defined categories of exceptionality, individuals with cultural and linguistic needs, and the importance of developing relationships with families. Introduces assistive technology and its implementation. Requires 5 clock hours of site-based clinical work in a classroom setting for students with learning disabilities. "C" or better is required. May take concurrently with EDU 140 Exploring Critical Skills for the Professional Educator. *Prerequisite: sophomore standing.*

SED 209 Human Development for Exceptional Learners (3) (Odd Springs)

Complements and extends EDU 230 Educational Psychology with special emphasis on the brain and language development of exceptional learners. Key topics include basic anatomy of the brain, critical steps involved in the brain's acquisition and processing of information, and memory systems as well as the latest research on how the brain processes speech and learning. "C" or better required.

Prerequisite: "C" or better in EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development.

SED 300 Curriculum Design and Strategic Interventions (3) (Fall)

Trains candidates to specifically design instruction by modifying and enhancing core curriculum for students with learning disabilities. Candidates will acquire integrated, coherent learning strategies to help students with learning disabilities succeed in the classroom. Topics include differentiation of curriculum and instruction, climate for learning, and knowing and assessing the learner. "C" or better is required.

Prerequisite: "C" in SED 200 Foundations in Special Education.

SED 305 Classroom Management and Behavior Strategies (3) (Even Springs)

Provides a practical foundation in the principles of individual and group management structures. Introduces basic behavioral management concepts. Students will demonstrate their ability to develop, implement, and incorporate appropriate techniques. Emphasizes strategies in the areas of identification, prevention, and assessment. Candidates will identify and research techniques for attaining and maintaining appropriate academic and social behaviors for constructive, social participation and independent learning, and create a functional behavior assessment paired with an intervention plan. Requires 5 clock hours of site-based clinical work in a classroom setting with students with learning disabilities. "C" or better is required.

Prerequisite: "C" in SED 200 Foundations in Special Education.

SED 340 Laws and Policies for Special Education (3) (Even Springs)

Examines the history of special education laws, educational rights, related services, due process, student discipline, dispute resolution and Section 504 of the Americans with Disabilities Act and IDEA compliance. Candidates will learn to effectively communicate the needs and rights of persons with disabilities according to state and federal special education law. "C" or better is required.

Prerequisite: "C" in SED 200 Foundations in Special Education.

SED 360 Technology for Special Education (3) (Odd Springs)

Provides a hands-on introduction to assistive and instructional technology for all content areas. Introduces a framework for assessing exceptional learners' abilities, environment, required tasks and assistive tools, which will be utilized by candidates to develop a plan for educational supports at various levels to increase student independence and classroom participation. Requires 5 clock hours of site-based clinical work in a classroom setting for students with learning disabilities. "C" is required.

Prerequisites: "C" or better in each EDU 230 Educational Psychology, SED 209 Human Development for Exceptional Learners, and SED 300 Curriculum Design and Strategic Interventions.

SED 385 Practicum with Special Needs Population (2) (Limited)

Students work with individuals with special needs related to the SAU student's field of study by participating in a practicum site to hone skills in the major/minor. Requires 40 clock hours per credit hour in a professional placement under direction of a work supervisor and an academic supervisor. Graded "S"/"U."

Prerequisite: "C" or better in SED 200 Foundations in Special Education.

SED 420 Elementary Special Education Methods (3) (Fall)

Site-based methods course with hands-on experience in content, instruction, and strategies to enable candidates to meet the needs of elementary-level students with learning disabilities. Emphasizes intensive interventions for reading, mathematics, written expression, social studies, STE(A)M, and the arts as incorporated into the creation and teaching of an elementary thematic unit plan. Candidates practice classroom management, positive behavior supports, and cooperative learning techniques. Requires 20 clock hours of site-based methods work in a classroom setting for students with learning disabilities. "B-" or better is required.

Prerequisites: SOE admission, Basic Skills Exam, SED 423 Special Education Assessment and EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development, and EDU 267 Early Adolescent Development.

SED 421 Secondary Special Education Methods (3) (Spring)

Site-based methods course with hands-on experience with content, instruction, and strategies to enable candidates to meet the needs of students with learning disabilities at the middle and secondary levels. Emphasizes intensive interventions for math, reading, written expression, social studies, science, and the arts as incorporated into the creation and teaching of a secondary level thematic unit plan. Candidates practice Universal Design for Learning, inclusion and co-teaching. Requires 20 clock hours of site-based methods work in a classroom setting for students with learning disabilities. "B-" or better is required.

Prerequisites: SOE admission, Basic Skills Exam, SED 423 Special Education Assessment, EDU 230 Educational Psychology or ECE 266 Early Child Growth and Development, and EDU 267 Early Adolescent Development.

SED 423 Special Education Assessment (3) (Fall)

Provides instruction in appropriate assessment methods that lead directly to diagnosing skill deficits and determining levels of functioning in reading, writing, mathematical and social skills. Assessment results are translated into goals, objectives, and statements of progress on student IEPs. Explores methods of evaluating instructional outcomes for adjustments to ongoing instructional planning to meet individual needs. "C" or better is required.

Prerequisite: "C" or better in SED 200 Foundations in Special Education.

SED 426 Professional Practice and Collaboration (3) (Spring)

Candidates focus on the collaborative partnerships essential to working with students with mild/moderate disabilities and their families. Encompasses collaboration between general and special education teachers, teaching assistants, families, educational professionals, and agencies. Includes interpersonal skills and the building blocks and strategies needed to effectively communicate and work with key collaborators. Covers cooperative teaching, IEP team participation, supervising support staff, and facilitating transition needs. "C" or better is required. *Prerequisite: "C" or better in SED 200 Foundations in Special Education.*

SED 430 Internship Seminar (1) (Fall, Spring)

Focuses on topics specific to the special education field, such as the professional role, work environment, classroom space, teaching and testing, collaborating with families, professional organizations and supports, functional behavior assessment, intervention, and thriving as a special educator. Interns who are candidates for the special education endorsement in learning disabilities meet as a group during their special education internship. Capstone project is a

professional portfolio of the internship experience. "B-" required.

Prerequisites: SOE admission, completion of all SED coursework, and approved to student teach.

Corequisite: SED 450 Internship Site-based Experience.

SED 450 Internship Site-based Experience (Fall, Spring)

Provides observation, assessment, instructional and management opportunities in the special education classroom under the mentorship of a classroom teacher and University supervisor. The intern assumes increasing responsibility for directing the classroom. In addition to the elementary or secondary internship experience in a general education classroom, candidates complete a special education internship of either 10 weeks in an elementary special education classroom or 15 weeks in a secondary special education classroom. Requires at least 180 hours and 8 weeks of site-based internship work in a classroom setting for students with learning disabilities. Graded "S"/"U."

Prerequisites: SOE admission; completion of all required EDU courses, SED courses and the pre-student teaching experience; approved to student teach.

Corequisite: SED 430 Internship Seminar.

SED 452 Internship Site-based Experience II (Fall, Spring)

Provides additional opportunities in the special education classroom for candidates who need more experience in the development of classroom techniques, as determined by their University supervisor and mentor teacher. The number of credits are determined based on the number of weeks required for placement per student teacher policy. *Prerequisite: SED 450 Internship Site-based Experience.*

SOC (Sociology)

SOC 100 Modern Social Problems (3) (Fall, Spring)

A study of modern social problems such as poverty, racism, sexism, the rich and powerful, and possible solutions to social problems and secular and Christian theories.

SOC 101 Introduction to Sociology (3) (Fall, Spring, Online)

Introduces concepts, theories, and methods of analyzing society, culture, social institutions, organizations, groups, classes, races, and ethnic groups.

SOC 201 Crime, Corrections, and Criminal Justice (3)

See CRJ 201.

SOC 242 Death, Grief, and Loss (3) (Odd Springs)

Examines grief and loss as experienced in various human settings – nursing homes, hospitals, and private homes, or through death or divorce – from various viewpoints (e.g., doctor, chaplain, E.R. nurse, the bereaved, etc.). Cross listed PSY 242 and SWK 242.

SOC 246 Substance Abuse and Society (3) (Even Springs, Online)

Addresses the issues of alcohol and drug abuse in contemporary society from a historical perspective and provides students with information that they can use to bring a Christian solution to the problem of substance abuse in their lives and the lives of those they meet personally and professionally. Cross listed PSY 246 and SWK 246.

SOC 250 Marriage and Family (3) (Fall)

Examines the institution of marriage and the family with emphasis on the changes in their structures and family roles. Traces the family through the life-cycle and analyzes its interaction with social class, ethnic, race, and other variations. Explores issues of intimacy, communication and conflict that face contemporary families. Cross listed SWK 250.

SOC 282 Introduction to International Development (3) (Odd Falls)

Introduces the history of international development, the realities of contemporary life in the world's low-income countries, and the competing theoretical perspectives on development and social change. Addresses cultural, social, political, religious, economic, and environmental elements of people's lives in the developing world. Surveys and critiques such dominant perspectives on development as modernization, dependency, world systems, globalization, and sustainable development.

SOC 300 Urban Sociology (3) (Limited)

Introduces theories of urbanization, urban development, and urban change with a historical and international emphasis. Special emphasis on contemporary issues and theories of urban society in the U. S. Topics include public housing, crime and urbanization, ethnic transition, and community development.

SOC 301 Criminological Theory (3)

See CRJ 301.

SOC 311 Racial and Ethnic Relations (3) (Fall, Sites, Online)

Examines cultures and experiences of minority ethnic groups in the U.S., and the impact of prejudice, discrimination, and racism on these minority groups and on white society. Cross listed SWK 311. Minimum "C" for social work majors.

SOC 314 Cultural Anthropology (3) (Limited)

Examines cross cultural sociological and anthropological perspectives on human behavior and social institutions as well as social and cultural similarities and differences among human populations.

SOC 327 Social Stratification (3) (Spring)

Addressed issues of social class, social status, and social power from historical and cross cultural perspectives. Students are encouraged to confront a variety of theories for the purpose of evaluating their fit with Christian faith.

SOC 351 Statistics for Behavioral Sciences (3) (Fall)

See PSY 351.

SOC 352 Research Design in Behavioral Sciences (3) (Spring)

See PSY 352.

SOC 354 Social Psychology (3)

See PSY 354.

SOC 360 Gender and Society (3) (Spring)

Explores how gender and gender roles impact on participation in major social institutions such as family, church, work, politics, and education. Impact of gender-role socialization across the life-span will be explored. Cross listed SWK 360.

SOC 371 Organizational Behavior Management (3)

See PSY 371.

SOC 382 International Human Rights (3) (Odd Springs)

Explores rights, freedoms, and protections essential to humanity on a global scale and the holistic biblical concept of justice and its presence or absence in countries around the world. Examines problems of the unequal distribution of wealth, power, and natural resources in the context of international organizations, nations, and people. Examines international organizations, multilateral and bilateral treaties, and country reports/histories. Analyzes conflicts such as the Congo, Nazi Germany, Cambodia, Bosnia, Kosovo, Rwanda, Chechnya, the Sudan, etc. Human rights issues discussed include sex trafficking, forced prostitution, bonded slavery, domestic/sexual abuse, the HIV/AIDS crisis, genocide, ethnic cleansing, systematic rape, all from a global perspective. Cross listed HIS 382 and SWK 382.

SOC 452 Sociological Theory (3) (Even Springs)

Briefly explores the socio-historical contexts and events that gave rise to the development of sociology as an academic discipline based on the scientific method. Examines and critically analyzes selected ideas of key sociologists from the classical era (e.g., Marx, Durkheim, Weber, Comte, Simmel, Cooley, and Mead) as well as contemporary theory and the various paradigms that are influential in sociological theory today.

Prerequisites: SOC 101 Introduction to Sociology and junior standing.

SOC 480 Senior Seminar (1) (Fall)

Seminar course. Covers advanced studies in selected sociological, criminological, and global topics related to contemporary, historical, technological, and social issues. Lectures, student presentations, and discussion will aid in further developing inquiry techniques and critical thinking skills. Students are encouraged to prepare graduate school and/or employment applications for life after graduation.

Prerequisite: senior standing.

SOC 484 Spirituality, Faith, and Justice (3) (Fall)

Capstone course focusing on integration of Christian faith, principles of spiritual formation, and basic principles of social analysis and planned change. Emphasizes the implications of the Christian faith on the understanding of social justice and the implications of sociological thought for praxis and planned change. Cross listed POL 484, SWK 484.

SPA (Spanish)

SPA 101 Elementary Spanish I (3) (Fall)

Offers training in the elements of grammar and pronunciation with emphases on the development of speaking, listening, reading, and writing skills taught in a cross cultural context designed to promote awareness and appreciation of Hispanic cultures. Does not count toward the Spanish major or minor requirements.

SPA 102 Elementary Spanish II (3) (Spring)

Continuation of SPA 101. Does not count toward the Spanish major or minor requirements.

Prerequisite: SPA 101 Elementary Spanish I.

SPA 201 Intermediate Spanish I (3) (Fall)

Review and thorough studies of grammar and communication skills with extensive practice in conversation, reading and composition taught in a cross cultural context designed to promote awareness and appreciation of Hispanic cultures. Does not count toward the Spanish major or minor requirements.

Prerequisite: SPA 102 Elementary Spanish II.

SPA 202 Intermediate Spanish II (3) (Spring)

Continuation of SPA 201. Does not count toward the Spanish major or minor requirements.

Prerequisite: SPA 201 Intermediate Spanish I.

SPA 306 Introduction to Spanish Literature and Culture (3) (Fall, Spring)

Gateway to study in advanced courses in the major or minor. Central concepts include developing advanced reading and critical writing skills, higher level grammatical forms, presentation skills, and the ability to critique within the cultural and literary contexts.

Prerequisite: SPA 202 Intermediate Spanish II or approval by the Department of World Languages chair.

SPA 321 Advanced Spanish (3) (Even Springs)

Advanced grammar and composition practice including expository writing based on research and analysis. *Prerequisite: "B-" or better in SPA 306 Introduction to Spanish Literature and Culture.*

SPA 322 Conversation and Phonetics (3) (Even Falls)

Intensive practice in speaking Spanish, with oral presentations, discussions, and listening assignments. Includes a linguistic study of Spanish, with emphasis on phonetics.

Prerequisite: "B-" or better in SPA 306 Introduction to Spanish Literature and Culture.

SPA 323 Civilization and Culture of Spain (3) (Odd Falls)

A study of the history, culture, and geography of Spain with emphasis on major political, philosophical, social and artistic movements.

Prerequisite: "B-" or better in SPA 306 Introduction to Spanish Literature and Culture.

SPA 324 Latin American Civilization and Culture (3) (Even Falls)

A study of the history, culture, and geography of Mexico, Central and South America with emphasis on major political,

philosophical, social and artistic movements.

Prerequisite: "B-" or better in SPA 306 Introduction to Spanish Literature and Culture.

SPA 325 Survey of Literature of Spain (3) (Even Springs)

A study of selected literary works from the Middle Ages to the 20th Century.

Prerequisite: "B-" or better in SPA 306 Introduction to Spanish Literature and Culture.

SPA 326 Survey of Latin American Literature (3) (Odd Springs)

A study of selected literary works from Mexico, Central America, and South America from pre-Colombian period through the 20th Century.

Prerequisite: "B-" or better in SPA 306 Introduction to Spanish Literature and Culture.

SPA 410 Seminar in Literature (2-3) (Limited)

A study of a particular period or genre of literature written in Spanish.

Prerequisite: "B-" or better in SPA 306 Introduction to Spanish Literature and Culture.

SPE (Speech)

SPE 100 Oral Communication (2) (Fall, Interim, Spring)

Focuses on small group and public communication. Activities include informal and formal speaking. Does not count toward speech major.

SPE 212 Fundamentals of Speech (3) (Online)

Theory, organization, preparation, and practice of speechmaking. Required speeches: storytelling, inspirational, informative, persuasive and symposium-panel-forum.

SPE 242 Story Telling (3) (Even Springs)

Study and application of the history, theory, practice, and ethics of storytelling. Main focus is on developing storytelling skills and understanding narrative paradigms. Assignments include study and performance of personal and others' stories and attending the Jackson Storyfest.

SPE 265 Acting Techniques (3) (Fall)

Creative methods of role development for theater. Includes play analysis.

SPE 342 Oral Interpretation and Voice (3) (Even Springs)

Analysis, practice, and oral reading of prose, poetry, and other forms of writing. Study and application of sounds for improved vocal quality and clear enunciation in public speaking. Requires preparing and presenting a program of literature.

SPE 460 Recital (1) (Fall, Spring)

Students prepare and perform a developed speech.

SST (Social Studies)

SST 200 Human Society: Learning in the Social Studies (3) (Fall, Spring)

Explores the ways in which social studies disciplines systematically approach the interaction of human beings within the social forms they have created. Introduces concepts and techniques common to history, geography, politics, and economics to help students grasp and communicate the fundamental dynamics of human society. Emphasizes practical exercises in recognizing structures and processes, organizing and analyzing data, and drawing conclusions to enlarge students' skills as classroom communicators and as critical participants in the world. "B-" or better required. *Prerequisite: sophomore standing and must be certifying to teach elementary.*

SST 300 Teaching Social Studies Standards (3) (Limited)

Prepares candidates to teach social studies content directly aligned with the revised Michigan Social Studies Standards (C3 framework), including grade-level content expectations (GLCE) and high school content expectations (HSCE).

SWK (Social Work)

SWK 242 Death, Grief and Loss (3)

See SOC 242.

SWK 246 Substance Abuse and Society (3)

See SOC 246.

SWK 250 Marriage and Family (3)

See SOC 250.

SWK 281 Introduction to Social Work (3) (Fall, Video Conference, Online)

Introduces the field of social work. Explores various practice settings, the history of social work, and the purposes and values that guide social work practice with individuals, families, groups, organizations, and communities to promote social justice and social welfare. Students are encouraged to assess their potential as a social worker. "C+" or better for social work majors.

Prerequisite: sophomore standing.

SWK 305 Human Behavior in the Social Environment (3) (Fall, Video Conference, Online)

Overviews biological, psychological, and social development of individuals from a life-span and family life-cycle perspective. Emphasizes how the interaction of the individual, culture, race, gender, and the social environment affect human behavior using social systems theory. Addresses issues of gender and other current social problems associated with the family life-cycle. Provides the theoretical foundation for social work practice with individuals, families, groups, organizations, and communities. Strongly recommended prerequisites of BIO 101 Human Biology, PSY 100 Introduction to Psychology, SOC 101 Introduction to Sociology, and SWK 281 Introduction to Social Work or equivalent courses for adequate preparation for success in this course. Minimum "C" for social work majors.

SWK 307 Child Welfare (3) (Online)

Includes concepts, policies, and practices in the broad field of family and child services. Explores traditional child welfare services and current concentrations or specializations defined as "services to families, children, and youth." Introduces policies and services that impact children and families and services available for children and families who are experiencing problems. "C" or better required for certificate.

SWK 308 Adulthood and Aging (3) (Limited)

Explores human development from age 40 through death. Explores research on developmental issues such as the changing family, work and retirement, faith, leisure, biological changes, and health. Covers developmental tasks and personality characteristics that lead to successful aging. Analyzes social policies that impact the ability to meet personal needs. Explores how the Baby Boomers are and will be changing definitions of aging.

SWK 311 Racial and Ethnic Relations (3) (Fall, Video Conference, Online)

See SOC 311.

SWK 322 Volunteer Administration: Managing the Work of an Unpaid Work Team (2) (Limited)

Explores theoretical concepts from sociology, social work, business, history, communications, theology, motivation, and education as they engage in what constitutes volunteer administration. Interactive exercises explore such topics as who is volunteering in the U.S. today, the impact of age on volunteer behavior, the history of formalized volunteering, the influence of religion on voluntary behavior, etc. Reviews elements essential to the effective organization and management of a successful volunteer program.

SWK 335 Interviewing (3) (Spring, Video Conference, Online)

Introduces the researched-based theory and techniques of interviewing for the helping relationship. A pre-practice course that will teach interviewing skills necessary for effective practice with individuals, families, groups, organizations, and communities. May be taken concurrent with SWK 340 Practice with Individuals and Families. Minimum "C" for social work majors.

Prerequisite: SWK 305 Human Behavior in the Social Environment, or permission.

SWK 340 Practice with Individuals and Families (3) (Spring, Video Conference, Online)

Covers theoretical foundations of generalist social work practice with individuals and families. Theories of Human Behavior and Social Environment (HBSE) will be applied to practice of assessment, goal-setting, intervention, termination and practice evaluation. Special attention given to intervention with diverse and vulnerable populations. Problem-solving process is learned that will also be applied to practice with groups, organizations, and communities. May be taken concurrently with SWK 335 Interviewing. Minimum "C" for social work majors. Prerequisite: SWK 305 Human Behavior in the Social Environment, or permission.

SWK 341 Trauma Informed Child Welfare (3) (Online)

Provides future child welfare practitioners with foundational knowledge related to trauma and child traumatic stress. Focuses on utilizing a "trauma lens" to examine practice with children and families within the child welfare system and the role of the social worker in effectively identifying traumatic stress, responding to children and families in a trauma-informed manner, and ensuring that they receive trauma-specific treatment services.

SWK 351 Statistics for Behavioral Sciences (3)

See PSY 351.

SWK 352 Research Design (3) (Fall, Spring, Video Conference, Online)

Basic theory of research design is used for a proposal for program outcome evaluation, needs assessment, and single subject research. Covers design and analysis of quantitative research with introduction to qualitative research methods. Prepares students for reading and using professional research articles. Provides a foundation for understanding how research methods can be used to evaluate practice at a micro- and macro-level. It is advisable for students to complete SWK 351 Statistics or equivalent prior to taking this course. It is the student's responsibility to be equipped with prerequisite knowledge required for course success. "C" or better for social work majors.

SWK 360 Gender and Society (3)

See SOC 360.

SWK 380 Carol Lee Seminar (1) (Odd Springs)

The Carol Lee Seminar is a day-long meeting that focuses on some aspect of death, grief, and loss, utilizing the expertise of a guest speaker. Independent reading and writing will also be required allowing the student to further explore an aspect of death, grief, or loss. Cross listed PSY 380.

SWK 382 International Human Rights (3)

See SOC 382.

SWK 442 Social Welfare Policies (3) (Spring, Video Conference, Online)

Reviews the historical development and philosophical basis of social work's response to those in need and of social welfare policy. Examines the current welfare system to enable students to develop beginning practice skills in the construction, analysis, and implementation of social welfare policy at local, state, and national levels. Prepares students to effectively utilize social policy as a generalist social worker. Minimum "C" for social work majors. Prerequisites: SWK 281 Introduction to Social Work, POL 213 American National Government or POL 214 State and Local Government, and an introductory, microeconomics or macroeconomics course.

SWK 446 Practice with Groups (3) (Fall, Video Conference, Online)

Examines theories of group behavior and the impact of group participation on human behavior with emphasis on how these theories can be applied to problem-solving methods for treatment and task groups. Systems theory is used to understand how the social work profession makes use of groups to accomplish individual, family, organizational and/or community goals. Covers issues of diversity within and between various groups in our society as well as group dynamics, group development, group decision-making, use of self within group dynamics, group leadership skills, and evaluation of group practice. Minimum "C" for social work majors.

Prerequisites: SWK 335 Interviewing and SWK 340 Practice with Individuals and Families.

SWK 447 Practice with Communities and Organizations (3) (Fall, Video Conference, Online)

Builds on the theory of human behavior in the social environment from SWK 305 and SWK 446 by providing additional theory of community and organizational behavior. Focuses on a macro-perspective involving work with and in the community. Discusses how social work uses knowledge, values, skills, and affective reasoning in organizing and planning to change or reform social conditions and to achieve better organization and coordination of community systems for meeting human needs. Minimum "C" for social work majors.

Prerequisites: SWK 305 Human Behavior in the Social Environment, SWK 335 Interviewing, and SWK 340 Practice with Individuals and Families.

SWK 450 Internship (10) (Fall, Spring, Video Conference, Online)

Participation in social service program in a community agency under the direction of social work professionals and University faculty. Students advance their knowledge of the profession and refine their generalist practice skills. Involves 400 clock hours of agency work. Graded "S"/"U."

Prerequisites: Admission to the SWK major and successful completion of the field practice application. Corequisite: SWK 480 Internship Seminar.

SWK 480 Internship Seminar (2) (Spring, Video Conference, Online)

A capstone course. Integrates concepts, knowledge, values, skills, and cognitive and affective processes from previous coursework with agency experience. Provides opportunities to share learning experiences from agency placement and to demonstrate competencies through a series of integration assignments. Minimum "C" for social work majors. Prerequisite: Admission to the SWK major and successful completion of the field practice application process.

SWK 484 Spirituality, Faith, and Justice (3)

See SOC 484.

THE (Theology)

THE 205 History of Christian Thought (3) (Limited)

Surveys key theological developments, doctrines, figures, and ideas that shaped Christian thought from the early Christian church to today. Examines the relevance of historic Christian doctrine for personal life and ministry practice.

THE 206 Doctrines of the Christian Faith (3) (Odd Falls)

Introduces basic and essential Christian doctrine. Explores the nature, task, and sources of theology, disputed issues within evangelical theology, a major contemporary issue (open view theism), and theological roots of various traditions. Covers major theological figures, terms, traditions, and periods of the historic Christian faith.

THE 307 The Holy Spirit, Spiritual Gifts, and Spirit Movements (3) (Odd Springs)

Examines biblical, theological, and practical aspects and various related controversial issues of the person and work of the Holy Spirit (pneumatology), of spiritual gifts, and of Spirit-movements. Emphasizes the role of the Holy Spirit and spiritual gifts in the life of the believer and the church.

THE 318 Christian Origins: Heretics and Saints (3) (Odd Falls)

Explores seminal contributions of Christian theologians of the first five centuries of the church. Emphasizes patristic biblical interpretation through study of select writings pivotal for doctrinal formulation in the areas of Christology, Trinitarian theology, ecclesiology, and soteriology. Critically examines various exemplars (such as Irenaeus and Augustine) in light of contemporary ecclesial and cultural contexts and concerns.

Prerequisites: PHI 200 Introduction to Philosophy and THE 206 Doctrines of the Christian Faith, or permission.

THE 320 Luther, Calvin, and the European Reformations (3) (Limited)

Introduces the background, major figures, and significant theological issues of the Reformation period in the 16th century that gave rise to Protestantism. Reviews writings of Martin Luther, John Calvin, and other reformers. Traces theological developments throughout the Lutheran, Calvinist, Radical, English, and Counter-Reformation movements. Discusses key theological issues particular to the Reformation period: sola scriptura, justification by grace, the nature of the sacraments, the understanding of the church, etc.

Prerequisite: THE 206 Doctrines of the Christian Faith or instructor's permission.

THE 405 The Problem of Evil (3) (Even Falls)

Examines the biblical, theological, philosophical, and personal problem of suffering and evil; the doctrines of God, creation, and providence; and the nature, origin, and challenge of sin, evil, and Satan. Discusses age-old questions and explores various responses to suffering and evil for personal life and the practice of ministry.

THE 411 From Modern to Postmodern Theology (3) (Limited)

Advanced seminar course. Covers the challenges to traditional theology in the Enlightenment period in the 18th Century. Examines various responses to modernism from the 19th to the 21st centuries, beginning with Classic Liberal Theology, Fundamentalism, Mediating Theologies, Neo-Orthodox Theologies, Neo-Liberal Theologies, Bonhoeffer and Radical Thought, and Evangelical Theology, and concluding with the Postmodern revolt against Modernity. A basic prerequisite knowledge of philosophy and theology will benefit the students in this class.

Prerequisite: THE 206 Doctrines of the Christian Faith.

THE 470 Development of Wesleyan Thought (3) (Limited)

Explores Wesley's roots in the Reformation, Wesley's cultural and intellectual heritage, Wesley's theology, and the development of Wesleyan thought from Wesley to the present.

Prerequisite: THE 206 Doctrines of the Christian Faith or instructor's permission.

TSL (Teaching English as a Second Language)

TSL 311 Cross Cultural Communication (4) (Even Springs)

Students explore personal biases and basic principles underlying multicultural communication competence. Provides an opportunity to develop cross cultural communication competence and activities for use in culturally diverse classrooms. Requires 15 hours in a K-12 ESL classroom or community ESL program. "C" or better required.

TSL 321 Essential Linguistics for Teachers of English Language Learners (2) (Odd Falls)

Examines English linguistics for those preparing to teach English to non-native speakers of English. Compares different theories of language development and how grammar, reading, writing, and spelling instruction fit into current practices of language teaching. "C" or better required.

TSL 326 Methods and Materials for Teachers of English Language Learners (4) (Odd Springs)

Focuses on the pedagogical aspects of teaching English and the preparation of teaching materials for classroom use. Explores integrated methods and strategies for teaching listening, speaking, reading, and writing to ELLs of diverse backgrounds and levels. Requires highly constructive class participation and responsible out-of-class lesson assignment preparation for the practicum. "B-" or better required.

Prerequisite: TSL 311 Cross Cultural Communication or TSL 321 Essential Linguistics for Teachers of ELL.

TSL 327 Teaching Grammar for English Language Learners (2) (Even Falls Online)

Enhances the classroom instruction for teachers of beginning and intermediate English Language Learners by blending classroom strategies with the study of the most important grammatical structures of English for speaking and writing. Students develop metalanguage skills for describing grammar correction. Students study different language groups in order to understand the most frequent error types for these languages. "B-" or better required.

Prerequisite: TSL 311 Cross Cultural Communication or TSL 321 Essential Linguistics for Teachers of ELL.

TSL 411 Sheltered Immersion (SIOP) for Content Area Teachers (4) (Even Springs Online)

Uses Sheltered Immersion Observation Protocol (SIOP) training materials and theory to develop an understanding of how to plan a supportive classroom learning environment for ELL students in general and content classrooms. Candidates plan for multi-levels of diverse students using standards-based ESL and content curriculum. Candidates design integrated activities through thematic and inquiry-based units that focus on listening, speaking, reading, and writing goals for content area objectives and English language development. Requires a one-hour-a-week lab in science, social studies, or math classroom with ELLs. "C" or better required.

Prerequisite: TSL 311 Cross Cultural Communication or TSL 321 Essential Linguistics for Teachers of ELL.

TSL 420 Assessment and Evaluation of English Language Learners and Programs (3) (Odd Springs Online)

Explores theoretical and practical aspects of language assessment and evaluation, particularly in measuring second language skills of students in ESL programs. "C" or better required.

Prerequisite: TSL 311 Cross Cultural Communication or TSL 321 Essential Linguistics for Teachers of ELL.

TSL 421 Methods for Teaching Literacy for English Language Learners (4) (Odd Falls Online)

Focuses on teaching methods and classroom organization ideas for promoting oral language, vocabulary, reading comprehension, writing, and spelling for pre-K-12 ELLs. Candidates practice methods for developing reading comprehension, writing, and spelling for students at different levels of language proficiency. Requires 10 clock hours or field experience of in a K-12 ESL classroom. "B-" or better required.

Prerequisite: TSL 311 Cross Cultural Communication or TSL 321 Essential Linguistics for Teachers of ELL.

TSL 430 Seminar in Teaching English as a Second Language (1) (Fall and Spring Online)

Focuses on topics specific to the TSL field. "B-" or better required.

Prerequisites: SOE admission, completion of all TSL coursework, and approved by SOE to student teach.

VID (Video Production)

VID 202 Video Production (4) (Spring)

Explores principles of visual storytelling through TV studio and digital field production. Introduces TV studio operations, control room, and field equipment. Individual and group production of studio and field video projects.

VID 306 Advanced Video Production (4) (Fall)

Concentrated instruction and enriched experience in TV studio and field video production. Introduces producing and directing. Involves individual and group production of studio and field video projects.

Prerequisite: VID 202 Video Production.

VID 314 Script Writing (3) (Odd Falls)

Promotes respect for and commitment to the processes necessary for effective playwriting and screenwriting. Explores regimens leading to greater creative output and the internally motivated disciplines contributing to artistic productivity. Cross listed ENG 314.

VID 315 Design Tools: Premiere Pro (1) (Interim)

Students edit video using the tools of Adobe Premiere Pro. Must have access to Adobe Premiere Pro software.

VID 324 Introduction to Film (3) (Odd Springs)

Examines vocabulary, methods, and principles of film by focusing on the systems of meaning that make film the sophisticated art form it is. Topics include visual design (including composition, color, and lighting), editing, cinematography, narrative structure, acting, sound, and music as separate systems of meaning that derive new meanings and use new methods when combined in film art.

VID 334 Film Theory and History (3) (Limited)

Exposes students to film as an art form. Emphasizes theoretical perspectives as a means of understanding film as a sophisticated synthesis of different forms of art. Topics include the historical development of artistry in film, basic elements of film as different systems of meaning, various approaches to analyzing film components, significant movements in the history of film, and various theoretical perspectives on film as an art form.

VID 372 Short Film Production (3) (Fall, Spring)

Focuses on the pre-production, production, post-production, and distribution processes of making independent films. Students fulfill various roles as director, producer, cinematographer, editor, production assistants, and writers. A different role may be assumed each semester repeated. New films are produced each semester. Can be repeated.

VID 376 Editing (3) (Even Falls)

Students work with the tools used by film and video editors as they apply to the practice of visual storytelling. Explores best practices for working in a digital environment. Examines standard video editing theories and techniques. *Prerequisite: COM 110 Communication Technology.*

VID 401 Film History (3) (Limited)

In-depth critical research and analysis of list of important films from the past century. Examines schools of critical discourse in film and their place in the development of film as technical phenomenon, art form, and cultural medium. *Prerequisite: VID 324 Introduction to Film.*

VID 410 TV Producing and Directing (2) (Spring)

Students produce and direct television programs or films. May be repeated one time. *Prerequisites: VID 306 Advanced Video Production.*

WRT (Writing)

WRT 216 Writing for the Media (3) (Fall, Spring)

Students develop a portfolio with various forms of writing for electronic and print delivery, including brochure and website copy, scripts for audio and video production, and others.

WRT 306 Writing for Children (3) (Online)

Reviews skills and techniques for writing fiction and nonfiction for children. Publication strategies and current markets will also be reviewed. Students prepare a portfolio and submit articles for publication.

WRT 310 Multimedia Reporting (3) (Even Falls)

Explores the changing concepts of news and the impact of media convergence and practice collecting information and constructing stories for radio, television, web, and social media platforms. Requires off-campus reporting experiences.

WRT 316 Copy Editing (3) (Limited)

Emphasizes mastery of a craft and principles of editing copy for various media. Includes headline writing and layout.

WRT 324 Photojournalism (3) (Limited)

Covers the relationship of photography to journalism, including basic visual communication theory, photographic design and technical skills. Assignments allow opportunity to tell a story, to set a mood, and to catch the high point of an event. Students develop a portfolio of photographic work.

Prerequisite: ART 205 Foundations of Photography or permission.

WRT 373 Feature Writing (3) (Spring Online)

Covers steps involved in writing for magazine and book publication from the time the idea is conceived until the manuscript is accepted for publication. Explores freelance opportunities.

Prerequisite: ENG 104 College Writing.

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Director, Christian Perspective in the Liberal Arts

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Dorie Shelby

Dean, School of Communication, Media, and Fine Arts

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TBD

Dean, School of Humanities

Michael Nydegger

Dean, School of Natural Sciences

Alvin Kauffman

Dean, School of Nursing and Health Sciences

Bonnie Holiday

Dean, School of Social Sciences

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Campus Facilities

Chapman Welcome Center is located at the front of campus to welcome prospective students and their families. The building contains administrative and admissions support offices.

Dietzman Hall houses the administrative offices including the business office, financial aid, registration and records, information technology, and the Cross Cultural Studies Offices.

Dunckel Gym is located adjacent to the McDonald Athletic Center and provides needed space for intramurals, including four basketball courts and two racquetball courts. The outdoor sports areas include a softball field, baseball stadium, soccer field, track, and tennis courts.

The **Ganton Art Gallery/Ogle Art Center** is the location of the art gallery, art labs, engineering labs, classrooms, and faculty offices.

Hugh and Edna White Library is a three-story facility which houses campus library resources which currently holds more than 100,000 volumes of books, microfilms, records, tapes, compact discs, videocassettes, other media, and equipment. Over 1,400 periodicals are available to the University community. The University Archives is located in the lower level of the library and includes records relating to the operation and history of Spring Arbor University, Spring Arbor College, Spring Arbor Junior College, and Spring Arbor Seminary.

Human Resources located on College St. is home to offices of payroll, personnel, and student employees.

The Jaworski Nursing Simulation Center is furnished with equipment that simulates real-life medical scenarios to train and prepare pre-licensure nursing program students for clinical practice.

Kresge Student Center houses on the main level Ogle Dining Commons, food service offices, Ralph Carey Forum, Office of the President, Office of Academic Affairs, and University Bookstore. On the lower level is the Cougar Den, Holton Health Services, student game room, Office of Student Development, Center for Innovation, Office of Intercultural Relations, counseling, career services, and student government.

Ormston Hall was renovated from a residence hall to an office building where many of the Department of Nursing offices are currently housed along with the Director of Institutional Research and Assessment.

Mailing and Duplicating (M&D) houses the mailing and duplicating services for the University.

The **McDonald Athletic Center (Fieldhouse)** provides multiuse possibilities with three basketball courts, indoor track, tennis courts, badminton courts, volleyball courts, fitness center, and locker facilities. The second floor houses faculty offices, laboratory facilities, and classrooms.

The **Physical Plant** houses maintenance, grounds, and custodial personnel.

The **Poling Center for Global Learning and Leadership** is home to the Gainey School of Business, True Community Trading Center, Hosmer Center for Entrepreneurship, the School of Social Sciences, classrooms, two collaborative learning areas, Ada's Kitchen, lounge area, faculty offices, a faculty lounge, and conference rooms.

The **Prop Shop** is an "intimate theater space" providing opportunities for students to showcase skills in acting and directing through a variety of performances.

Sayre-DeCan Hall serves as a classroom building which houses Radio Stations (The Arbor and Home.fm), the departments of communication, English, history, and world languages, and School of Education.

Smith Music Center provides classrooms, studios, laboratory facilities, and music department offices.

The Arbor Church offers facilities for the University's use including a 2,000 seat auditorium.

The **University Marketing and Communications** office houses staff who serve the University community with creative design, University publications, web site management, and media projects.

The Voller House is the President's home.

White Auditorium is used for community concerts, programs, and events.

The **Whiteman-Gibbs Science Center** accommodates faculty offices for computer science, mathematics, all sciences and theology, classrooms, two large lecture halls, and science and computer science laboratories.

Residence Facilities

Andrews Hall is a male residence hall located on the northeast corner of College and Second Streets. The four-story building has a grand entry, multiple lounge spaces, a computer lab, a fireplace, and a game room.

Gainey Hall houses women on the southeast corner of College and Second Streets. The three-story residence hall has two large student lounges, a grand entry way, laundry, a computer lab, and a top-floor fitness room.

Koinonia Houses (or K-Houses) are homes located throughout the campus area, each housing four to 11 upperdivision students.

Lowell Hall Complex is a hall with four wings (Alpha, Beta, Gamma, and Delta), two common lounges, a kitchen, laundry facilities, a prayer chapel, a computer lab, and a fitness room.

Ogle Village and **Post Village** are upper-division halls that accommodate up to 36 students each in suites where four students in two bedrooms share a bathroom. Each of the seven villages provides two large lounges with kitchen and laundry facilities.

Parks Drive Apartments is a seven-building complex of 56 apartments for married students and employee families.