

I. Advising Philosophy and Foundations

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Advising Mission and Responsibilities

Mission: Academic advising is an important part of the learning process at Messiah College that encourages students to discern and develop their interests and talents in preparation for professional and community engagement. As part of a “carefully mentored, Christ-centered journey of the intellect and spirit,” advisors assist students in their intentional exploration and planning of educational opportunities. This relationship is perhaps best thought of as a partnership between students and educators: students are personally responsible for planning their academic program and co-curricular involvement to meet all graduation requirements and develop their sense of vocation; advisors help students make good choices compatible with their academic plans and life goals.

Academic Advisors should:

- understand QuEST (general education) requirements, major requirements, as well as the overlap between the two;
- understand academic policies and procedures; able to apply them to student circumstances.
- assist students to establish academic goals compatible with the student’s life goals;
- encourage students to enhance academic performance and seek academic challenges;
- assist students to develop course schedules which consider the student’s academic goals and background;
- monitor student academic progress and encourage good academic work;
- encourage students to pursue appropriate educational opportunities;
- refer students to appropriate resources available to help students:
 - solve individual problems (e.g., Engle Center, Student Affairs, Learning Center, Writing Center, Financial Aid, and Disability Services);
 - identify, plan and explore educational opportunities (e.g. Intercultural Office, Career and Professional Development Center, Agape Center, Student Leadership and Involvement, Collaboratory, etc.);
- encourage student applications, if appropriate, for scholarships and awards—following student inquiry;
- evaluate the advising system, when requested, in order to strengthen the advising process.

Students should:

- accept full ownership for all academic decisions -- academic advisors will assist by presenting options and identifying resources;
- prepare for advising sessions and bring appropriate resources or materials (i.e. pen/digital device timetable of classes, catalog, completed registration form, etc.);
- contact and make an appointment with an advisor when in need of assistance;
- follow through on actions identified during each advising session or other communication;
- clarify personal values, abilities, interests, and goals during their time at Messiah;
- become knowledgeable of and adhere to institutional policies, procedures, and requirements;
- review eligibility requirements for scholarships and awards and when appropriate, discuss options with advisor in a timely manner;
- evaluate advisors and the advising system when requested, in order to strengthen the advising process.

Foundations of Advising

- In order to earn a bachelor degree, students must complete all major and QuEST requirements with a minimum of a total of 123 credit hours.
 - Always use the credit totals at the top of each block to evaluate progress towards completion. Do NOT add up the blocks themselves, as some courses may meet multiple requirements.
- The last 30 credits preceding graduation must be earned at Messiah College.
- To continue at Messiah, students need to maintain a minimum cumulative GPA of 1.80 for the first two semesters, 1.90 for the next two semesters, and 2.00 thereafter. In order to graduate, students must demonstrate a 2.00 minimum GPA for their overall requirements, as well as for their major.
- Students may be completing different years for QuEST than their major.
 - The year a student enters Messiah determines which QuEST requirements they must complete.
 - The year in which a student formally declares their major determines which major requirements the student must meet.
 - For example, a student enters Messiah in 2016-2017. They will follow the QuEST requirements for that year. The same student declares their major during the spring semester of 2018. That student would follow the major requirements for 2017-18 for their major, while following the 2016-17 requirements for QuEST.
- For transfer credits/ off-campus programs/AP:
 - Ensure that courses in the transfer equivalency database meet the needed requirement (do not merely look at course prefix).
 - For courses not already approved in the transfer equivalency database:
 - Department chairs determine transfer equivalencies for major and minor-related courses.
 - The Registrar's Office and Assistant Dean of General Education, Common Learning and Advising approve transfer equivalencies for QuEST courses based on the course objectives for the relevant requirement.
 - Some QuEST courses have limited transferability:
 - Created and Called for Community MUST be taken at Messiah
 - Ethics/ World Views/ Pluralism and Science, Technology and the World MUST be taken at a similar theological institution
 - Knowledge of the Bible and Christian Beliefs are approved on a case-by-case basis when transferred from non-Christian institutions
 - To determine how AP credits may meet requirements, consult http://www.messiah.edu/info/21351/transfer_ap_clep_courses/2107/apclepib_equivalencies/2

**Please take time to review the:
Degree Works video at [DegreeWorks for Undergraduate Students](#)**

Degree Audit Essentials

Degree Works Audit: Accessed via Falcon Link/ Faculty and Advisors Self Service Menu/ Student Information Menu/ Degree Audits

- The [Ellucian Degree Works™ Audit](#) is the primary advising tool for tracking degree and certificate requirements. Available 24 hours a day, 7 days a week, the Degree Works audit displays course requirements specific to a student's declared academic program and catalog year.
- The [Degree Works Audit may be accessed](#) via FalconLink / Degree Works (Faculty) card
- **Degree requirements** for undergraduate students consist of major courses, general education courses, and free electives, depending on the academic program. Students should meet with their academic advisor before registration and prior to graduation to ensure that the minimum required credits are on track for completion by the anticipated graduation date.
- Click [here](#) to learn about the **various features** of Degree Works and how to interpret the degree audit.
- The **blocks** on the audit display the total number of credits needed for program completion, course requirements and GPA. Degree Works displays requirements in a checklist format. *Courses marked with a green check mark are complete. Courses with a blue half-moon are currently in-progress. An unchecked box indicates courses that are not yet fulfilled.*
- **The credits applied count** includes both in-progress as well as completed credits. Be aware that some courses may display on the degree audit in more than one block (such as major and general education) but should only be counted once in the total credit calculation.
- Students pursuing a **degree and certificate, or two degrees** (*each of a different type*) will have two-degree audits. You can access each audit separately by using the degree drop-down menu at the top of the audit, and toggle between both audits as needed.
- To ensure that you are accessing the most up-to-date information in Degree Works, click the **'Process New'** button. This will ensure that newly registered or graded courses display appropriately.
- While Degree Works allows the user to **collapse and expand blocks** on the audit, please be sure to expand all blocks for a full picture of the academic programs and corresponding requirements.
- Please be advised that **transfer credits** marked as 'IP' (*or in progress*) have not been earned yet. They will appear like other in progress courses with the blue half-moon; however, the distinction is in the grade of 'IP' versus 'NR' (*not reported*). If you find a transfer course marked as in progress on the degree audit, please have the official transcript sent to the Registrar's Office upon completion for final evaluation. Please note, transfer equivalency and a grade of C or higher are required for courses to transfer.
- **Courses that are repeated for a better grade** will display an "R" under the repeat column on the far right-side of the page. Upon completion of the second occurrence of the course, the grade corresponding with the first occurrence will be excluded from the GPA calculation, while the second occurrence will be included in the GPA. At the end of the term, repeated courses that have been excluded will display in the 'Insufficient' block at the bottom of the audit.
- For students completing **multiple programs**, please be advised that 12 credits in a minor, 24 credits in a major, and 8 credits in a concentration must be unique to each program. While there is no overlap or double counting rule for students earning certificates and other majors, minors, or concentrations; new certificates may not overlap more than 3 credits with existing certificates.
- Degree Works also offers students the ability to track their **graduation checklist** as well as their **registration checklist**. Both checklists can be accessed in the academic view under the drop down for the degree works format. Once selected, make sure to click 'Process New' for the checklist to load and appear on your screen.

- The “**What-if**” **audit** is a helpful tool for students who are considering a change of academic program or addition of a certificate or minor. Click [here](#) for a short video tutorial on how to complete a “What-if” audit.
- The Degree Works audit provides a **Note feature**, which allows the academic advisor to record electronic notes directly into a student’s degree audit. The Degree Works note feature is intended for general notations regarding student advising, such as meeting summaries for future registration and graduation plans. Click [here](#) for a video tutorial on how to create/edit a note in Degree Works.

Degree Audit Questions

- For questions or concerns regarding the Degree Works audit, please email: degrecertification@messiah.edu.
- **Please note: Requests for exceptions/substitutions/waivers must come from the Department Chair.**

Registrar’s Office Contact Information

Main Email: registrar@messiah.edu **Main Phone:** 717-691-6074

II. QuEST

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The Basics of QuEST

QuEST is based on several assumptions which affect the design and implementation of curriculum.

- The curriculum consists of 54 credits supporting our four learning outcomes. However, students typically complete no more than 50 credits, as all majors have at least one course which also meets QuEST requirements.
- Unless otherwise noted in the curriculum, all courses will have a class enrollment maximum of 37 students per faculty member.
- Courses may be team taught (no more than 3 faculty members). Team-taught courses will provide adequate student discussion and student-faculty dialogue in groups of no more than 35 students.
- Each component of the QuEST curriculum has a set of unique course objectives, by which courses are approved to meet the component of the curriculum. **Only courses which meet these objectives, including those taken at other institutions, will satisfy the relevant component.**
- Students may not use a course to meet more than one component of the QuEST curriculum; “double-dipping” between categories is not permitted.
- The General Education Committee may approve multiple courses in each section of the curriculum. This approach is based on the assumption that both learning and teaching are facilitated when students are free to choose courses which correspond to personal areas of interest and when professors are free to design and teach courses that grow out of their individual interests and professional expertise.
- Departments may require that all students within a major/department take a single course to meet the objective. Where an approved QuEST course is also specified as a major requirement, it will free a corresponding number of unrestricted elective credit hours for the student. Please consult the major advising sheets for the QuEST components specified by each specific major.

QuEST Curriculum

QuEST, Messiah University’s general education program, serves as a curricular progression through which students develop skills, abilities, and perspectives necessary to become collaborative agents in the contemporary workforce and society. This progression is intended to complement and parallel the academic majors in a way which allows students to respond with maturity to the world’s complexities by raising important questions, exposing students to multiple perspectives and ways of knowing (i.e. arts, humanities, natural sciences, social sciences). In doing so, our curriculum encourages critical thinking and the application of knowledge from diverse disciplines, informed by faith and a sense of purpose, to relevant issues which shape our lives. The curriculum is divided into four outcomes which reflect Messiah’s educational objectives.

Area One—Abilities of the Liberal Arts foster the abilities to think, read, write and speak effectively. Individuals who develop these abilities are more flexible and adaptable to the changes of the world across the spectrum of different fields and life experiences. (9 credits)

First Year Seminar (3 credits)

Created and Called for Community (3 credits)

Oral Communication (3 credits)

Area Two—Knowledge of the Liberal Arts promotes awareness and insight of how people with different perspectives, beliefs and disciplines interpret reality and make meaning. Given that modern society and the workplace involve increasingly complex and global issues, students must develop a breadth of knowledge and the capability for action informed by context and purpose. (35 credits)

1. Mathematical and Natural Sciences (9 credits)
 - Mathematical Science (3)
 - Laboratory Science (3)
 - Science, Technology, and the World (3)
2. Social Sciences and History (6 credits)
 - Two of the following:*
 - Social Science (3)
 - European History (3)
 - United States History (3)
3. Humanities and Arts (9 credits)
 - Literature (3)
 - Arts (3)
 - One of the following:*
 - Religion (3)
 - Philosophy (3)
4. Languages and Culture (9 credits)
 - One of the following:*
 - Language (6) two semesters of the same language (6) **AND** an off-campus, cross-cultural studies course (3)
 - Language (9) three semesters of the same language (9)
5. Non-Western Studies (2–3 credits)

Area Three—Christian Faith encourages students to articulate and evaluate one’s faith by gaining knowledge of the Bible’s content and themes, including the biblical witness of service, leadership, and reconciliation, and by understanding how different Christian faith traditions may shape beliefs. Students develop deeper commitments in service to God and to others as they explore connections between faith and learning. (6 credits)

- Knowledge of the Bible (3)
- Christian Beliefs (3)

Area Four—Social Responsibility facilitates deepening self-awareness as students discern and develop their identity, gifts, and vocation, as well as Christian character. These academic experiences empower students to act upon their knowledge and judgment through meaningful careers and lives that respond to the complexities of this world. (4 credits)

- Wellness Activity Course (1 credit)
- Engaging a Pluralistic World: Interdisciplinary Perspectives (3 credits)
- One of the following:*
- Ethics in the Modern World (3)
- World Views (3)
- Pluralism in Contemporary America (3)

Interdisciplinary Courses

Interdisciplinary (ID) courses provide areas of integrated learning in which students wrestle with and address complex questions that face our society, and are woven throughout the curriculum. Throughout their QuEST, students will be challenged to answer these questions by examining different perspectives, theories and experiences in order to arrive at a more discerning conclusion. Students cultivate adeptness in navigating complexity and thinking holistically about these issues in order to reflect upon their own beliefs, as well as bridge values and assumptions of diverse perspectives. In turn, students are empowered to respond to unexpected and ever-changing realities they will encounter in life, work and society.

IDFY 101 First Year Seminar (3)

Faculty from a diverse array of disciplines engage students in conversations that focus on issues central to the university's educational mission -- faith, identity, vocation, character, and responsible action. Courses include opportunities to develop effective writing, close reading, critical thinking, as well as the identification and appropriate use of sources for research. All these skills foster a discerning mind and the effective communication of ideas, which provide an essential foundation upon which one's learning and intellect develop.

Course Description: An introduction to the intellectual life of the university for first-year students. This is done in the context of a small-discussion-oriented seminar designed around specific themes proposed and taught by individual faculty from a variety of academic disciplines. Emphasis is given to developing important academic skills such as writing, reading, and critical thinking.

IDCR 151 Created and Called for Community (3)

In this second course in our writing program students consider the central question, "What is my vocation as a faithful steward of God's creation?" They seek answers by engaging biblical themes of creation, forgiveness, compassion, peacemaking, and reconciliation through an examination of literary, historical, artistic, philosophical, and theological works using the lens of Messiah University's distinctive foundational values. Our foundational commitments have a particular focus on the importance of community and hospitality, as all peoples are made in the image of God. Students therefore develop the ability to be theologically reflective, to develop an appreciation for their own identity and Christian vocation, and to cultivate their intellect and character in preparation for lives of leadership through service in the world.

Course Description: The central question to be considered is: "What is my vocation as a faithful steward of God's creation?" Through examining literary, historical, artistic, philosophical and theological works, students engage in the biblical themes of forgiveness, compassion, non-violence, peacemaking, justice, and racial and gender reconciliation through the lens of the university's unique religious identity and foundational values, with a particular focus on the importance of community.

IDST 300 Science, Technology and the World (3)

Science and technology influence and impact every aspect of our modern society. An examination of these influences provides students with a significant understanding of how science, technology and the Christian faith complement and challenge one another related to relevant ethical, social, cultural, historical, political or sustainable issues. Therefore, within a Christian context, students gain the ability to contribute to societal discourses on issues and controversies which emanate from advances in science and technology.

Course Description: An interdisciplinary exploration of the nature, methodology, and scope of science with special emphasis on the interrelationship between science and culture.

IDNW 200 Non-Western Studies (2–3)

Studies of non-western cultures furthers students ability to understand and appreciate social customs, traditions, systems of thought and expression in various civilizations such as the Middle East, Asia, Africa, the Caribbean Islands, the Pacific Islands, Latin America and indigenous cultures across the world. In life, the ability to generally understand the context of perspectives, expectations and experiences of cultures different from one's own facilitates effective relationship-building and problem-solving with people of differing backgrounds.

Course Description: An engagement with cultures or people whose heritage and/or present life has been significantly shaped by customs, practices, and ideas outside the European tradition.

IDCC 260 Cross-Cultural Studies (3)

By living in another culture for several weeks or a semester, students have the opportunity to understand the paradoxes, tensions, consistencies and values in a society significantly different from their own. Direct experience within other cultures develops an appropriate sense of self-awareness of one's own cultural assumptions and the pervasiveness of cross-cultural encounters in the human experience. This immersion equips students for appropriate interaction with persons of different social norms, appreciate multiple viewpoints, and recognize the importance of developing mutual trust and respect in cross-cultural interaction when relating to others or living in complex situations.

Course Description: A field-based examination of one or more cultures which seeks to increase the students' appreciation for and understanding of cultural traditions other than their own. Requires three weeks of on-site study, including home-stays or ethnographic fieldwork, in addition to readings, lectures, and site visitations.

WELL 100 Wellness Activity (1)

The activity wellness course equips students to identify the significance of behavior choices in reducing disease risk and improving overall health. A variety of different wellness activity courses provides students with the opportunity to practice skills and develop commitments to lifetime physical activity. Wellness education encourages students to recognize the integrated relationship between spiritual, emotional, physical, relational and intellectual health.

IDET 300 Ethics in the Modern World (3)

This course builds on the concepts introduced in Created and Called for Community: we are made in the image of God, made to live in community and called to serve Him within society. Ethics courses focus students' attention on critically evaluating selected contemporary social and moral issues and incorporating Christian responses to complex problems. Study is designed to help students prepare to engage in the world in which they will live and work, as well as develop and defend ethical perspectives on challenging situations or issues.

Course Description: An examination of various approaches to moral decision-making and an application of these approaches to selected contemporary ethical issues and problems. Prerequisite: IDCR 151

IDWV 300 World Views (3)

This course builds on the concepts introduced in Created and Called for Community: we are made in the image of God, made to live in community and called to serve Him within society. World Views courses prompt students to consider various belief systems and perceptions of reality, as well as how those perceptions have shaped and continue to shape people's lives with special emphasis on how these belief systems compare and contrast with a Christian worldview. Students are spurred to develop and support

their own world view, how it applies to contemporary issues and how they may relate to others who may or may not share their perspectives.

Course Description: An examination of the various belief systems which have and continue to shape people's lives with special emphasis on how these belief systems compare and contrast with a Christian world view. Prerequisite: IDCR 151

IDPL 300 Pluralism in Contemporary Society (3)

This course builds on the concepts introduced in Created and Called for Community: we are made in the image of God, made to live in community and called to serve Him within society. By examining differing perspectives within a society – i.e. religion, race, ethnicity, gender, class, ability – pluralism courses address the effects of inequality, prejudice and discrimination. Engagement with these issues allows students to articulate and practice an informed and faithful Christian response to diversity.

Course Description: An examination of contemporary issues and problems arising out of the racial, ethnic, class, gender, and religious diversity of American society, with a special emphasis on raising the students' awareness of the effects of inequality, prejudice, and discrimination in American society. Prerequisite: IDCR 151

Sequencing of Requirements

The white spaces indicate the time when each of the general education requirements should be taken. When two or more years are indicated, the requirement may appropriately be completed during any of the suggested years.

		First Year	Second Year	Third Year	Fourth Year
1.1	First Year Seminar	FALL ONLY			
1.2	Oral Communication				
1.3	Created and Called for Community	SPRING ONLY			
2.1.A	Mathematical Sciences				
2.1.B	Laboratory Science				
4.1	Wellness **				
2.2.A	Social Science				
2.2.B	European History				
2.2.C	United States History				
2.3.A	Literature				
2.3.B	Religion/Philosophy				
2.3.C	Arts				
2.4.A	Languages				
-----	Writing Enriched Course				
3.1.A	Knowledge of the Bible*		*Must be at least sophomore status		
2.5	Non-Western Studies				
3.2	Christian Beliefs*		* Must take BIBL 201 as prerequisite		
2.4.B	Cross Cultural Studies^				
4.2.A,B,C	Ethics in the Modern World* OR World Views* OR Pluralism in Contemporary Society*			*Must take CCC as prerequisite	
2.1.C	Science, Technology and the World				

* Case by case exceptions for appropriate equivalent courses made in light of the theological foundation of the transferring college.

** Student-athletes must complete the following requirements during the semester in which they are enrolled in PHED 102, in addition to participation in their intercollegiate sport:

- Completion of initial wellness assessment
- Completion of written assignment, discussing wellness assessment
- Attendance at two wellness seminars, including brief written response after each seminar

^ Students are strongly encouraged to take their Cross-Cultural Studies course during their second or third years.

QuEST Approved Courses

The following listing represents those courses in each category that have been approved by the General Education Committee. In some cases the courses have been taught on a regular basis while in other cases the course may have been taught infrequently.

Area 1: Abilities of the Liberal Arts

- 1.1 **First Year Seminar** [3 hrs] The list of seminars is published each summer.
IDFY 101 First Year Seminar (3)
IDFY 102H Honors First Year Seminar (3)
- 1.2 **Oral Communications** [3 hrs]
COMM 105 Fundamentals of Oral Communication (3)
- 1.3 **Created and Called for Community** [3 hrs]
IDCR 151 Created and Called for Community (3)

Area 2: Liberal Arts

- 2.1 **Mathematical and Natural Sciences** [9 hrs]

Mathematical Sciences [3 hrs]

CIS 171	Problem Solving with Computers (3)
CIS 180	Introduction to Computer Science and Information Systems (3)
CIS 181	Computer Programming I (3)
CIS 191	Web Development: Client Side (3)
MATH 101	Introduction to Mathematical Sciences (3)
MATH 102	The Mathematics of Growth (3)
MATH 105	Precalculus for the Sciences (3)
MATH 107	Applied Mathematics for Management (3)
MATH 108	Intuitive Calculus with Applications (3)
MATH 111	Calculus I (4)
MATH 180	Discrete Mathematics (3)
STAT 269	Introductory Statistics (3)

Laboratory Science [3 hrs]

BALT 403	Nutrition Theory with Public Health Lab (4)
BIOL 106	Life Sciences (3)
BIOL 117	Field Biology (3)
BIOL 158	Human Biology (4)
BIOL 170	Cell and Animal Physiology (4)
BIOL 172	Diversity of Life and Plant Science (4)
CHEM 102	Chemistry for Living (3)
CHEM 103	Chemical Science (4)
CHEM 105	General Chemistry I (4)
ENVS 140	Introduction to Ecology and Sustainability (4)
ESS 201	Earth and Space Science (3)
GEOL 201	Foundations of Geology (4)

NUTR 110	Science and Nutrition (3)
PHSC 102	Foundations of Physical Science (3)
PHYS 201	Introductory Physics I (4)
PHYS 211	General Physics I (4)
SUST 140	Introduction to Ecology and Sustainability (3)

Science, Technology, and the World [3 hrs]

BUSA 358	Making a Better World? (3)
CRIJ 369	Forensics (3)
ENVS 216	Environmental Issues and Sustainable Solutions (3)
IDST 300	History of Modern Science I (3)
IDST 300	History of Modern Science II (3)
IDST 300	Issues in Science and Religion (3)
IDST 300	Relationships and the Brain (3)
IDST 300	Science and Belief in Modern Europe (3)
IDST 300	Scientific Revolution and European Order, 1500-1700 (3)
IDST 300	Social Aspects of Modern Science (3)
IDST 300	Staging Science (3)
IDST 300	Stress and Health (3)
PHIL 356	Minds and Machines (3)
PHIL 362	Philosophy of Science (3)

2.2 Social Sciences and History [6 hrs]

To complete this requirement, students must take one course from two of the following categories:

Social Sciences

CRIJ 103	Crime, Justice and Society (3)
ECON 110	Economics of Social Issues (3)
ECON 117	Issues in Environmental Economics (3)
ECON 120	Principles of Macroeconomics (3)
EDUC 203	Educational Psychology (3)
HDFS 101	Foundations of Marriage and Family (3)
POLI 113	American Government (3)
POLI 213	Comparative Politics (3)
PSYC 101	Introduction to Psychology (3)
SOAN 101	Principles of Sociology (3)
SOAN 315	Urban Sociology (3)
SOWK 120	Introduction to Social Welfare and Social Work (3)

European History

HIST 101	Ancient Mediterranean Hist. (3)
HIST 102	Modern European History Survey (3)
HIST 205	Ancient Greece (3)
HIST 206	Ancient Rome (3)
HIST 207	The Early Church (3)
HIST 210	Knights, Peasants and Bandits (3)
HIST 212	Medieval Europe (3)

United States History

HIST 141	U.S. History Survey Before 1865 (3)
HIST 142	U.S. History Survey Since 1865 (3)
HIST 240	Age of Hamilton (3)

HIST 244	Civil War America (3)
HIST 256	America and World War II (3)

2.3 Humanities and Arts [9 hrs]

Literature [3 hrs]

ENGL 122	Introduction to Poetry (3)
ENGL 124	Short Story (3)
ENGL 126	From Script to Screen (3)
ENGL 142	Selected Works of British Literature (3)
ENGL 144	Nineteenth-Century British Women Writers (3)
ENGL 146	Writings of the Inklings (3)
ENGL 148	Introduction to Shakespeare (3)
ENGL 152	Selected Works of American Literature (3)
ENGL 154	Introduction to Ethnic Literatures of the United States (3)
ENGL 160	Introduction to World Literature (3)
ENGL 162	Of Gods and Humans (3)
ENGL 164	Studies in the Bible as Literature (3)
ENGL 172	Literature and the Life of Faith (3)
ENGL 174	Literature and the Environment (3)
ENGL 176	Twentieth Century Women's Literature (3)
SPAN 301	Topics in Latin American Literature (3) Prereq: SPAN 206
SPAN 311	Topics in Spanish Peninsular Literature (3) Prereq: SPAN 206
SPAN 314	The Counter Reformation and the Spanish Baroque (3) Prereq: SPAN 206
SPAN 331	Trans-Atlantic Literature (3) Prereq: SPAN 206

Philosophy [3 hrs]

PHIL 101	Problems of Philosophy (3)
PHIL 102	History of Philosophy (3)

Religion [3 hrs]

RELI 205	Religions of the World (3)
RELI 228	Judaism (3)
RELI 229	Islam (3)

Arts [3 hrs]

ART 103	Introduction to Drawing (3)
ART 107	Introduction to Painting (3)
ART 115	Introduction to Sculpture (3)
ART 132	Introduction to Printmaking (3)
ARTH 150	Art History: Prehistory-1400 (3)
ARTH 151	Art History: 1400-21 st Century (3)
DANC 305	Dance History (2), when taken with one of the following: DANC 101 Ballet (1) DANC 102 Jazz and Dance Theatre (1) DANC 103 Modern Dance (1) DANC 104 Tap Dance I (1)
MUGE 101	Fundamentals of Music Theory (3)
MUGE 209	Survey of Christian Song (3)
MUGE 210	American Popular Music (3)
MUGE 223	Jazz Improvisation (3)

MUGE 224	Songwriting for Beginners (3)
MUGE 225	Worship Music through the Guitar (3)
THEA 110	Introduction to Theatre (3)
THEA 120	Acting 1 (3)
THEA 150	Introduction to Technical Theatre and Design (3)
THEA 361	Creative Dramatics (3)
THEA 363	Theatre for Social Change (3)

2.4 Languages and Cultures [9 hrs]

To complete this requirement, students need to take **one** of the following options:

- Three semesters of the same language, reaching the intermediate level **OR**
- Two semesters of the same language plus an approved cross-cultural study

Languages and Cultures

CHIN 101	Fundamentals of Chinese I (3)
CHIN 102	Fundamentals of Chinese II (3)
CHIN 201	Intermediate Chinese (3)
FREN 101	Fundamentals of French I (3)
FREN 102	Fundamentals of French II (3)
FREN 201	Intermediate French (3)
GERM 101	Fundamentals of German I (3)
GERM 102	Fundamentals of German II (3)
GERM 201	Intermediate German (3)
GREK 205	Fundamentals of Greek I (3)
GREK 206	Fundamentals of Greek II (3)
GREK 305	Intermediate Greek (3)
HEBR 205	Fundamentals of Hebrew I (3)
HEBR 206	Fundamentals of Hebrew II (3)
HEBR 305	Intermediate Hebrew (3)
IDCC 260	Cross-Cultural Study (3) (locations to be announced; vary by academic year)
SPAN 101	Fundamentals of Spanish I (3)
SPAN 102	Fundamentals of Spanish II (3)
SPAN 201	Intermediate Spanish (3)
SPAN 203	Spanish for Healthcare Professionals (3)
TEP 439	Student Teaching: Domestic and International (9)

Area 3: Christian Faith

Knowledge of the Bible [3 hrs.]

BIBL 201	Encountering the Bible (3)
BIBL 202	Encountering the Bible for Majors (3)
BIBL 203	Encountering the Old Testament (Hebrew Bible) (3)
BIBL 204	Encountering the New Testament (3)

Christian Beliefs [3 hrs]

THEO 205	Introduction to Christian Theology (3)
BALT 301	Christian Theology: Contemplative Practices and Social Transformation (3)
THEO 207	African-American Theology (3)
THEO 209	Anabaptist Theology (3)
THEO 211	Brethren in Christ Life and Thought (3)
THEO 213	Pentecostal Theology (3)

THEO 215	Roman Catholic Theology (3)
THEO 217	Wesleyan Holiness Theology (3)
THEO 219	Theology and Christian Unity (3)
THEO 221	Faith and Society (3)
THEO 223	Global Christian Theology (3)
THEO 227	Theology, Violence, and Non-Violence (3)
THEO 229	Theology and American Culture (3)
THEO 232	Reformation Theology (3)
THEO 238	Theology I (3)

Area 4: Social Responsibility

Wellness [1 hr.]

To complete this requirement, students must take one wellness activity course from the list below.

APHS 170	Concepts of Conditioning
DANC 101	Ballet (1)
DANC 102	Jazz and Dance Theatre (1)
DANC 103	Modern Dance (1)
DANC 104	Tap Dance I (1)
WELL 102	Lifetime Wellness (1)
WELL 103	Adapted Physical Education (1)
WELL 104	Swimming for the Non-Swimmer (1)
WELL 105	Intermediate Swimming (1)
WELL 106	Aquatic Aerobics (1)
WELL 107	Beginning Racquetball (1)
WELL 108	Intermediate Racquetball (1)
WELL 109	Beginning Volleyball (1)
WELL 110	Intermediate Volleyball (1)
WELL 111	Advanced Volleyball (1)
WELL 112	Beginning Tennis (1)
WELL 113	Intermediate Tennis (1)
WELL 114	Dance and Rhythm Activities (1)
WELL 115	Skiing & Snowboarding I (1)
WELL 116	Skiing & Snowboarding II (1)
WELL 117	Self Defense (1)
WELL 118	Creative and Expressive Movement (1)
WELL 119	Beginning Yoga (1)
WELL 120	Racquet Activities (1)
WELL 121	Team Activities (1)
WELL 122	Flag Football and Basketball (1)
WELL 123	Strength Training (1)
WELL 124	Safety and R.A.D. Systems for Women (1)
WELL 126	Tennis and Volleyball (1)
WELL 127	Aquatics (1)
WELL 128	Developmental Gymnastics/Rhythmical Activities (1)
WELL 129	Beginning Pilates (1)
WELL 131	Disc Activities (1)
WELL 133	Indoor Cycling (1)
WELL 135	Non-traditional Games (1)
WELL 136	Exercise and Weight Management (1)
WELL 137	Fitness Walking (1)
WELL 138	Couch to 5K (1)

4.2 Engaging the Pluralistic World: Interdisciplinary Perspectives [3 hrs]

To fulfill the Engaging the Pluralistic World requirement, students must take one course from one of the following categories.

Ethics in the Modern World

BALT 302	Bioethics and Justice (3)
BIBL 293	The Bible and Social Ethics (3)
BIOL 317	Bioethics (3)
BUSA 370	Moral Issues In Business (3)
EDUC 356	Moral Education (3)
ENVS 315	Environmental Ethics (3)
HDFS 340	Ethics and Family (3)
IDET 316	Healthcare Ethics (3)
PHIL 325	Moral Problems (3)
PHIL 382	Ethics (3)
POLI 330	Terrorism (3)
POLI 366	The Causes of War (3)
SOAN 335	Social Conflict and Reconciliation (3)

World Views

IDWV 300	World Views (3)
PHIL 345	Philosophy of Religion (3)

Pluralism in Contemporary Society

COMM 307	Rhetoric of the Civil Rights Movement (3)
EDSP 303	Disability And Society (3)
EDUC 346	Social-Cultural Perspectives on Education (3)
HDFS 378	Latino Families (3)
HDFS 383	Topics in Multicultural Families (3)
HDFS 384	Families in America (3)
HDFS 386	Family Ethnicity and Human Services (3)
HIST 345	Pennsylvania History (3)
HIST 351	Native American History (3)
HIST 352	African-America History Since 1865 (3)
HIST 355	U.S. Urban History (3)
HIST 392	Women and Gender in Amer. History (3)
HPED 329	Sport in Society (3)
IDPL 300	Personal Narratives of a Pluralist Society (3)
IDPL 300	The Holocaust (3)
IDPL 300	Racism and Racial Reconciliation (3)
POLI 310	American Political Thought (3)
POLI 316	Constitutional Law: Civil Liberties and Civil Rights (3)
POLI 325	Gender, Family and Politics (3)
POLI 334	Public Opinion and Political Soc (3)
RELI 342	Religious Pluralism in America (3)
RELI 355	Christianity in North America (3)
SOAN 310	Food, Power, and Society (3)
SOAN 341	Religion and Society (3)
SOAN 342	Race and Gender in the United States (3)
SOAN 356	Social Inequality (3)
THEO 354	Theology and Gender (3)

Non-Western Studies [2 or 3 hrs]

ARTH 210	Topics in Non-Western Art (3)
COMM 321	Global Indigenous Media (3)
COMM 327	Latin American Cinema (3)
GEOG 103	World Regional Geography (3)
HIST 271	World History to 1500 (3)
HIST 272	World History Since 1500 (3)
HIST 273	Hist. of Premodern Asia to 1500 (3)
HIST 274	Hist. of Mod. Asia Since 1500 (3)
IDNW 200	Education. in Sub-Saharan Africa (3)
MUMH 338	Studies in Global Music (2)
PHIL 318	Asian Philosophy (3)
POLI 222	Politics in Latin America (3)
POLI 312	Politics of China (3)
POLI 346	Russia after Communism (3)
RELI 321	Christianity in Latin America (3)
RELI 329	Christianity in Africa (3)
RELI 332	Christianity in Asia (3)
RELI 333	Religions of India (3)
RELI 334	Religions of China and Japan (3)
SOAN 212	Cultural Anthropology (3)
SOAN 221	Native American Cultures (3)
SOAN 236	Ethnography (3)
SPAN 302	Culture and Identity in Latin America (3)

Guide to Navigating Advising Equivalencies for QuEST Requirements

1. BEFORE taking QuEST classes elsewhere, a student should check the online [Transfer Course Equivalency Database](#):

- If a QuEST course appears in this database:
 - **Students participating in off-campus programs** still need to complete an *Off-Campus Study Course Approval Form* in which they list the specific courses they plan to take and the specific requirements (i.e. Art, Non-Western, etc.) which they plan to meet with those courses.
 - **Students taking a course for traditional transfer credit** do not need to submit additional pre-approval paperwork to receive credit for the existing course equivalency, once advisors review the course to ensure that students are interpreting the database correctly.
- If a course does not appear in the database, the student must submit one of the following forms **in advance** of taking the course to ensure it meets the appropriate QuEST requirement:
 - *Off-Campus Study Course Approval Form* (for students studying in an approved off-campus program through, and available from, the Intercultural Office at Messiah University)
 - *Approval for [Transfer Credit Form](#)* (for students not studying in an approved study abroad program through the Intercultural Office at Messiah University; e.g., local community college)

Students must **list the specific courses they plan to take and the specific requirements which they plan to meet with those courses** and review those expectations with their advisors to ensure that the anticipated courses meet with their degree plan.

2. WHEN REQUESTING AN ARTICULATION (EQUIVALENCY) FOR A QuEST COURSE:

- **Students and advisors will be expected to provide** the institution, course name and description. When possible, students may be asked to provide a class syllabus. General guidelines for types of course which may potentially meet requirements appear in the [Transfer Guidelines](#).
- **The Registrar's Office and Assistant Dean of General Education and Common Learning determine** whether/ how well a particular course meets the various objectives set forth in each area of QuEST. These objectives were established in light of our institution's specific educational mission and goals

Important Considerations Regarding QuEST Equivalencies

- **The determination of how effectively an interdisciplinary (IDS) course satisfies a particular QuEST requirement rests with the Registrar and Assistant Dean of General Education and Common Learning.** When determining how effectively a distribution course (QuEST course within a department) satisfies a particular General Education requirement, these parties may consult with Department Chairs, to the extent that the course meets specified discipline-related educational objectives.

For example, if a student would like a particular class to meet his/her Pluralism in Contemporary Society requirement, the class will need to meet the following objectives:

4.2.C. Pluralism in Contemporary Society

Objectives: By the completion of the course the students will demonstrate the ability to:

- outline contemporary issues arising out of the pluralism of race, ethnicity, social class, gender, disability and religion.*
- examine contemporary society from diverse viewpoints and through these, increase self-knowledge.*
- explain some effects of inequality, prejudice, and discrimination.*
- articulate and practice an informed and faithful Christian response to diversity.*

- **An established partnership** with an institution (e.g., via study abroad articulation) **does not necessarily guarantee articulation** of their coursework for our particular QuEST requirements.
- **Classes are *not* equated solely by the type of course** (i.e. Art, History, etc.) .
- **Waivers** of QuEST components are only granted in **very rare circumstances**
- Additionally, certain QuEST requirements **must be taught from a Christian perspective** (i.e., from Messiah or another institution with a similar Christian theological foundation):
 - 1.3.A Created and Called for Community (Messiah only)
 - 2.1.C Science, Technology and the World
 - 3.1 Knowledge of the Bible
 - 3.2 Christian Beliefs
 - 4.2.A. Ethics in the Modern World
 - 4.2.B. World Views
 - 4.2.C. Pluralism in Contemporary Society

When in doubt, please contact Dr. Kate Oswald Wilkins, Assistant Dean of General Education, Common Learning and Advising!

Transfer Equivalencies

(Must meet all QuEST course objectives for specific requirement)

Requirement	Equivalency	Level
First Year Seminar	3 credits English composition (Awarded if 1 or more full-time semesters of college have been completed.)	100
Created and Called for Community	Messiah University course	100
Oral Communication	3 credits public speaking (e.g. speech, relational communication)	100-200
Mathematical Sciences	3 credits mathematical science beyond college algebra (Some majors may have specific course requirements.)	100-200
Laboratory Science	3-4 credits laboratory science (e.g. biology, chemistry, physics, geology containing a lab component. Some majors may have specific course requirements.)	100-200
Science, Technology, & the World	Messiah University course	200
Social Science	3 credits introductory psychology, sociology, anthropology, economics, or political science	100-200
History	3 credits European or United States history (e.g. introduction to the foundations of the discipline and survey of the broader area of study)	100-200
Literature	3 credits literature (e.g. American writers, British writers, Shakespeare, short stories, poetry)	200
Philosophy/Religion	3 credits philosophy or religion (e.g. introduction or history of philosophy; world religion)	100-200
Arts	3 credits art, music, or theatre (Must have a studio component. e.g. drawing, photography, singing, acting)	100-200
Languages & Culture	3 semesters of same modern language	100-200
Non-Western Studies	3 credits in non-western studies (e.g. Asian, Latin American, Native American, African studies)	200
Biblical Knowledge	*Messiah University course	100-200
Christian Beliefs	*Messiah University course	200-300
Wellness	2 1-credit activity courses (transfer students only)	100
Ethics in the Modern World or World Views or Pluralism in Contemporary Society	Messiah University course	300-400

*Case by case exceptions for appropriate equivalent courses made in light of the theological foundation of the transferring college.

NOTE: Some majors have specifically defined courses that meet both a major and a QuEST requirement. Consult the current Messiah University catalog for more information.

III. BIOLOGICAL SCIENCES

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^c **Cellular and Molecular Electives:**

BIOL 375 Developmental Biology**
BIOL 380 Genomics and Disease**
BIOL 416 Cancer and Cell Biology**
BIOL 418 Immunology**

^d **Organismal and Biodiversity Electives:**

BIOL 325 Medicinal Botany**
BIOL 332 Plant Taxonomy and Systematics**
BIOL 456 Ornithology**
BIOL 458 Herpetology**

^e **Selected Major Electives:**

BIOL 265 Microbiology
BIOL 301 Health Care in the Developing World**†
BIOL 375 Developmental Biology**
BIOL 380 Genomics and Disease**
BIOL 416 Cancer and Cell Biology**
BIOL 418 Immunology**
BIOL 465 Gross Anatomy
BIOL 470 Neuroscience
CHEM 410 Biochemistry I

Biology (B.S.) with Organismal Concentration 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
BIOL 170	Cell and Animal Physiology	4	WELL 1xx	Wellness*	1
CHEM 105	General Chemistry I ^a	4	BIOL 171	Biological Sciences Cornerstone	1
			BIOL 172	Diversity of Life and Plant Science	4
			CHEM 106	General Chemistry II	4
	TOTAL	14		TOTAL	16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language or cross-cultural**†	3	COMM 105	Oral Communication*	3
BIOL 260	Genetics	4	BIBL 2xx	Knowledge of the Bible*	3
CHEM 309	Organic Chemistry I	4	BIOL 262	Ecology	4
MATH 108/111	Calculus	3-4	CHEM 310	Organic Chemistry II	4
			STAT 269	Introductory Statistics	3
	TOTAL	14-15		TOTAL	17
Junior – Fall			Junior – Spring		
PHIL 10x	Philosophy*	3	Varies	1 st Social Science/History meeting QuEST*	3
PHYS 201	Introductory Physics I ^b	4	THEO 2xx	Christian Beliefs*	3
BIOL 265	Microbiology	4	Varies	Ethics, World View or Pluralism*	3
BIOL xxx <i>or</i> ENVS xxx	Plant Taxonomy and Systematics** <i>or</i> Organismal and Biodiversity Elective ^c <i>or</i> Selected Major Elective ^d	3-4	BIOL xxx <i>or</i> ENVS xxx	Organismal and Biodiversity Elective ^c <i>or</i> Selected Major Elective ^d	3-4
			Varies	Free Elective	3
	TOTAL	14-15		TOTAL	14-16
Senior – Fall			Senior – Spring		
Varies	2 nd Social Science/History meeting QuEST*	3	Varies	Non-Western Studies*	2-3
Varies	Art, Music, Dance, or Theatre meeting QuEST*	3	ENGL 1xx	Literature meeting QuEST*	3
Varies	Free Elective	3	Varies	Free Elective	3
SCIE 495 <i>or</i> Varies	Natural Sciences Capstone <i>or</i> Free Elective	3	SCIE 495 <i>or</i> Varies	Natural Sciences Capstone <i>or</i> Free Elective	3
BIOL xxx <i>or</i> ENVS xxx	Plant Taxonomy and Systematics** <i>or</i> Organismal and Biodiversity Elective ^c <i>or</i> Selected Major Elective ^d	3-4	BIOL xxx <i>or</i> ENVS xxx	Organismal and Biodiversity Elective ^c <i>or</i> Selected Major Elective ^d	3-4
	TOTAL	15-16		TOTAL	14-16

*QuEST requirement

** Alternate year course

† Discipline specific BIOL 304 in alternate year May terms can substitute for 3rd language/cross cultural requirement

^a Students should take CHEM 105 in the Fall of their first-year. Those for whom CHEM 101 is necessary should enroll in CHEM 105 in the Spring, and CHEM 106 in the Summer term.

^b Students may take PHYS 211 General Physics I or PHYS 202 Introductory Physics II in place of PHYS 201

^c **Organismal and Biodiversity Electives:**

BIOL 348 Animal Behavior**

BIOL 456 Ornithology**

BIOL 458 Herpetology**

^d **Selected Major Electives:**

ENVS 270 Environmental Techniques and Policy: Terrestrial**

ENVS 271 Environmental Techniques and Policy: Water and Wetlands**

BIOL 302 Rocky Mountain Ecosystems**

BIOL 304 Tropical Biology**

BIOL 336 Restoration Ecology**

BIOL 348 Animal Behavior**

BIOL 375 Developmental Biology**

BIOL 380 Genomics and Disease**

BIOL 456 Ornithology**

BIOL 458 Herpetology**

Any of the Au Sable Institute courses approved for this major

Biology (B.S.) with General Concentration 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
BIOL 170	Cell and Animal Physiology	4	WELL 1xx	Wellness*	1
CHEM 105	General Chemistry I ^a	4	BIOL 171	Biological Sciences Cornerstone	1
			BIOL 172	Diversity of Life and Plant Science	4
			CHEM 106	General Chemistry II	4
	TOTAL	14		TOTAL	16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language or cross-cultural**†	3	COMM 105	Oral Communication*	3
BIOL 260	Genetics	4	BIOL 262	Ecology	4
CHEM 309	Organic Chemistry I	4	CHEM 310	Organic Chemistry II	4
MATH 108/111	Calculus	3-4	STAT 269	Introductory Statistics	3
	TOTAL	14-15		TOTAL	14
Junior – Fall			Junior – Spring		
BIBL 2xx	Knowledge of the Bible*	3	Varies	Non-Western Studies*	2-3
Varies	1 st Social Science/History meeting QuEST*	3	Varies	2 nd Social Science/History meeting QuEST*	3
Varies	Free Elective	3	Varies	Free Elective	3
PHYS 201	Introductory Physics I ^b	4	PHIL 10x	Philosophy*	3
BIOL xxx	Form and Function ^c or Plant Science ^d or Cellular and Molecular ^e or Selected Major Elective ^f	3-4	BIOL xxx	Form and Function ^c or Plant Science ^d or Cellular and Molecular ^e or Selected Major Elective ^f	3-4
	TOTAL	16-17		TOTAL	14-16
Senior – Fall			Senior – Spring		
Varies	Art, Music, Dance, or Theatre meeting QuEST*	3	Varies	Ethics, World View or Pluralism*	3
THEO 2xx	Christian Beliefs*	3	Varies	Free Elective	3
ENGL 1xx	Literature meeting QuEST*	3	BIOL xxx	Selected Major Elective ^f	3-4
SCIE 495 or Varies	Natural Sciences Capstone ^b or Free Elective	3	SCIE 495 or Varies	Natural Sciences Capstone ^c or Free Elective	3
BIOL xxx	Form and Function ^c or Plant Science ^d or Cellular and Molecular ^e or Selected Major Elective ^f	3-4	BIOL xxx	Form and Function ^c or Plant Science ^d or Cellular and Molecular ^e or Selected Major Elective ^f	3-4
	TOTAL	15-16		TOTAL	15-1

*QuEST requirement

** Alternate year course

† Discipline specific BIOL 304 in alternate year May terms can substitute for 3rd language/cross cultural requirement

^a † Discipline specific BIOL 301 or BIOL 304 in alternate year May terms can substitute for 3rd language requirement

^a Students should take CHEM 105 in the Fall of their first-year. Those for whom CHEM 101 is necessary should enroll in CHEM 105 in the Spring, and CHEM 106 in the Summer term.

^b Students may take PHYS 211 General Physics I or PHYS 202 Introductory Physics II in place of PHYS 201

^c **Form and Function Electives:**

BIOL 456 Ornithology**
BIOL 458 Herpetology**
BIOL 460 Physiology
BIOL 465 Gross Anatomy

^f **Selected Major Electives:**

BIOL 265 Microbiology
BIOL 301 Health Care in the Developing World**†
BIOL 302 Rocky Mountain Ecosystems**
BIOL 304 Tropical Biology**†

BIOL 470 Neuroscience

^d ***Plant Science Electives:***

BIOL 332 Plant Taxonomy and Systematics**

BIOL 325 Medicinal Botany**

BIOL 336 Restoration Ecology**

^e ***Cellular and Molecular Electives:***

BIOL 375 Developmental Biology**

BIOL 380 Genomics and Disease**

BIOL 416 Cancer and Cell Biology**

BIOL 418 Immunology**

BIOL 325 Medicinal Botany**

BIOL 332 Plant Taxonomy and Systematics**

BIOL 336 Restoration Ecology**

BIOL 348 Animal Behavior**

BIOL 375 Developmental Biology**

BIOL 380 Genomics and Disease**

BIOL 416 Cancer and Cell Biology**

BIOL 418 Immunology**

BIOL 456 Ornithology**

BIOL 458 Herpetology**

BIOL 460 Physiology

BIOL 465 Gross Anatomy

BIOL 470 Neuroscience

^f ***Selected Major Electives:***

- BIOL 265 Microbiology
- BIOL 301 Health Care in the Developing World**†
- BIOL 302 Rocky Mountain Ecosystems**
- BIOL 304 Tropical Biology**†
- BIOL 325 Medicinal Botany**
- BIOL 332 Plant Taxonomy and Systematics**
- BIOL 336 Restoration Ecology**
- BIOL 348 Animal Behavior**
- BIOL 375 Developmental Biology**
- BIOL 380 Genomics and Disease**
- BIOL 416 Cancer and Cell Biology**
- BIOL 418 Immunology**
- BIOL 456 Ornithology**
- BIOL 458 Herpetology**
- BIOL 460 Physiology
- BIOL 465 Gross Anatomy
- BIOL 470 Neuroscience

Biopsychology (B.S.) Bioscience track 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
BIOL 170	Cell and Animal Physiology ^a	4	WELL 1xx	Wellness*	1
CHEM 105	General Chemistry I ^b	4	BIOL 171	Biological Sciences Cornerstone ^a	1
PSYC 101	Introduction to Psychology	3	BIOL 172	Diversity of Life and Plant Science ^a	4
			CHEM 106	General Chemistry II	4
			PSYC 209	Life Span Development	3
		TOTAL			TOTAL
		14			16
Sophomore – Fall			Sophomore – Spring		
COMM 105	Oral Communication*	3	Varies	1 st language requirement*	3
STAT 269 <i>or</i> PSYC 271	Introductory Statistics ^e (recommended) <i>or</i> Statistical Methods in Psychology ^e	3	MATH xxx <i>or</i> Varies	Math meeting QuEST* ^e (if PSYC 271 taken) <i>or</i> Free Elective	3
BIOL 260	Genetics ^a	4	BIBL 2xx	Knowledge of the Bible*	3
CHEM 309	Organic Chemistry I ^c	4	CHEM 310	Organic Chemistry II ^c	4
			PSYC 272	Research Methods in Psychology	3
		TOTAL			TOTAL
		14			16
Junior – Fall			Junior – Spring		
Varies	2 nd language requirement*	3	Varies	3 rd language requirement**	3
Varies	Art, Music, Dance, or Theatre meeting QuEST*	3	PHIL 10x <i>or</i> Varies	Philosophy ^f <i>or</i> Religion meeting QuEST*	3
Varies	Non-Western Studies*	2-3	Varies	Free Elective	3
Varies	Free Elective	3	BIOL xxx	Selected Major Elective ^g	3-4
BIOL 470	Neuroscience	3	PSYC 351	Sensation and Perception	3
PSYC 350	Biological Basis of Behavior	3			
		TOTAL			TOTAL
		17-18			15-16
Senior – Fall			Senior – Spring		
ENGL 1xx	Literature meeting QuEST*	3	Varies	Ethics, World View or Pluralism*	3
PSYC 345 <i>or</i> PSYC 319	Cognition <i>or</i> Abnormal Psychology	3	HIST 1xx	History meeting QuEST*	3
PSYC 408	Experimental Psychology	3	THEO 2xx	Christian Beliefs*	3
BIOL xxx <i>or</i> Varies	Selected Major Elective ^{d,g} <i>or</i> Free Elective	3-4	Varies	Free Elective	3
SCIE 495 <i>or</i> PSYC 494 <i>or</i> Varies	Natural Sciences Capstone <i>or</i> Psychology Seminar <i>or</i> Free Elective	3	SCIE 495 <i>or</i> PSYC 494 <i>or</i> Varies	Natural Sciences Capstone <i>or</i> Psychology Seminar <i>or</i> Free Elective	3
		TOTAL			TOTAL
		15-16			15

Notes:

* QuEST requirement

** Alternate year course

^a Students may alternatively select the Allied-Health Track, taking BIOL 185, 186, 189 and PSYC 099 in place of BIOL 170, 171, 172, and 260.

^b Students should take CHEM 105 in the Fall of their first-year. Those for whom CHEM 101 is necessary should enroll in CHEM 105 in the Spring, and CHEM 106 in the Summer term.

^c Students may take CHEM 204 in place of CHEM 309 and 310.

^d Needed only if CHEM 204 taken in place of CHEM 309 and 310.

^e Students may take PSYC 271 and a Mathematical Science meeting QuEST in place of STAT 269.

^f Recommended. Philosophy is pre-requisite for SCIE 495 Natural Sciences Capstone.

^g **Selected Major Electives:**

BIOL 265 Microbiology

BIOL 348 Animal Behavior**

BIOL 375 Developmental Biology**

BIOL 380 Genomics and Disease**

BIOL 416 Cancer & Cell Biology**

BIOL 418 Immunology**

BIOL 460 Physiology

BIOL 465 Gross Anatomy

Environmental Science (B.S.) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
BIOL 170	Cell and Animal Physiology	4	WELL 1xx	Wellness*	1
CHEM 105	General Chemistry I ^a	4	BIOL 171	Biological Sciences Cornerstone	1
			BIOL 172	Diversity of Life and Plant Science	4
			CHEM 106	General Chemistry II	4
		TOTAL			14
					TOTAL
					16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language or cross-cultural [†]	3	Varies	Philosophy or Religion meeting QuEST*	3
COMM 105	Oral Communication*	3	BIOL 262	Ecology	4
BIBL 2xx	Knowledge of the Bible*	3	STAT 269	Introductory Statistics	3
GEOL 201	Foundations of Geology	4	CHEM 240 <i>or</i>	Environmental Chemistry** <i>or</i>	3-4
CHEM 204	Organic Chemistry for the Life Sciences	4	Varies	Art, Music, Dance, or Theatre meeting QuEST*	
		TOTAL			17
					TOTAL
					13-14
Junior – Fall			Junior – Spring		
Varies	2 nd Social Science/History meeting QuEST*	3	Varies	1 st Social Science/History meeting QuEST*	3
ENVS 315	Environmental Ethics	3	ENGL 1xx	Literature meeting QuEST*	3
THEO 2xx	Christian Beliefs*	3	CHEM 240 <i>or</i>	Environmental Chemistry** <i>or</i>	3-4
			Varies	Art, Music, Dance, or Theatre meeting QuEST*	
BIOL 332 <i>or</i>	Plant Taxonomy and Systematics** <i>or</i>	3-4	BIOL 336 <i>or</i>	Restoration Ecology** <i>or</i>	3-4
Varies	Select Major Elective ^b		Varies	Selected Major Elective ^b	
ENVS 270 <i>or</i>	Environmental Techniques and Policy	2	GIS 245 <i>or</i>	Introduction to Geographic Information Sys. <i>or</i>	3-4
ENVS 271	(Terrestrial <i>or</i> Water and Wetlands)**		BIOL 4xx	Ornithology** <i>or</i> Herpetology**	
		TOTAL			14-15
					TOTAL
					15-18
Senior – Fall			Senior – Spring		
Varies	Non-Western Studies*	2-3	Varies	Electives	4-6
ENVS 495	Environmental Science and Sustainability Capstone	3	BIOL 336 <i>or</i>	Restoration Ecology** <i>or</i>	3-4
			Varies	Select Major Elective ^b	
BIOL 332 <i>or</i>	Plant Taxonomy and Systematics** <i>or</i>	3-4	GIS 245 <i>or</i>	Introduction to Geographic Information Sys. <i>or</i>	3-4
Varies	Select Major Elective ^b		BIOL 4xx	Ornithology** <i>or</i> Herpetology**	
ENVS 270 <i>or</i>	Environmental Techniques and Policy	2			
ENVS 271	(Terrestrial <i>or</i> Water and Wetlands)**				
		TOTAL			13-15
					TOTAL
					12-14

Notes:

* QuEST requirement

** Alternate year course

† Discipline specific BIOL 304 in alternate year May terms can substitute for 3rd language requirement

^a Students should take CHEM 105 in the Fall of their first-year. Those for whom CHEM 101 is necessary should enroll in CHEM 105 in the Spring, and CHEM 106 in the Summer term.

^b Selected Major Electives:

BIOL 265 Microbiology

BIOL 302 Rocky Mt. Ecosystems**

BIOL 304 Tropical Biology**†

BIOL 348 Animal Behavior**

BIOL 456 Ornithology**

BIOL 458 Herpetology**

ENGR 353 Environmental Engineering

ENGR 451 Water & Wastewater Mmt**

ENGR 453 Hazardous Water & Air Po**

Any Au Sable Institute courses approved for this major

Sustainability Studies (B.A.) with Conservation and Agriculture concentration 8-semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called for Community	3
COMM 105	Oral Communication*	3	Varies	2 nd language requirement*	3
Varies	1 st language requirement*	3	ENGL 1xx	Literature meeting QuEST*	3
Varies	Free Elective	3	Varies	Free Elective ^c	3
SUST 140	Ecology and Sustainability	3	BIOL 172	Diversity of Life and Plant Science	4
		TOTAL			15
			TOTAL		
			16		
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*+	3	Varies	Philosophy or Religion meeting QuEST*	3
BIBL 2xx	Knowledge of the Bible*	3	HIST xxx	History meeting QuEST*	3
CHEM 103	Chemical Science	4	WELL 1xx	Wellness*	1
ENVS 216	Environmental Issues & Sustainable Solutions	3	STAT 269 or Varies	Introductory Statistics* ¹ or CIS/MATH meeting QuEST*	3-4
Varies	Sustainability elective ⁱ	3	SOAN 212	Cultural Anthropology	3
			Varies	Free Elective	3
		TOTAL			16-17
			TOTAL		
			16-17		
Junior – Fall			Junior – Spring		
ENVS 315	Environmental Ethics	3	GIS 245	Introduction to Geographic Information Syst	3
GEOL 201	Foundations of Geology	4	BIOL 336 or varies	Restoration Ecology** or Free Elective	3-4
INTE 391	Internship	3	BIOL xxx or Varies	Selected Organismal/Ecosystems elective ^c or Free Elective	3-4
Varies	Free elective	3	Varies	Free elective	3
ENVS 270 or ENVS 271 or Varies	Environmental Techniques and Policy (Terrestrial or Water and Wetlands)** or Free Elective	2-3	SOAN 310 or Varies	Food, Power, and Society** or Sustainability elective ⁱ	3-4
		TOTAL			15-16
			TOTAL		
			15-17		
Senior – Fall			Senior – Spring		
Varies	ART/MUSI/DANC/THEA meeting QuEST*	3	Varies	Free elective	3
THEO 2xx	Christian Beliefs*	3	BIOL 336 or varies	Restoration Ecology** or Free elective	3-4
Varies	Free elective	3	BIOL xxx or varies	Selected Organismal/Ecosystems elective ^c or Free elective	3-4
ENVS 270 or ENVS 271 or Varies	Environmental Techniques and Policy (Terrestrial or Water and Wetlands)** or Free Elective	2-3	SOAN 310 or Varies	Food, Power, and Society** or Sustainability elective ¹	3
SUST 495	Environ Sci and Sustainability Capstone	3			
		TOTAL			14-15
			TOTAL		
			12-14		

*fulfills QuEST requirements

** Alternate year course

+Discipline specific BIOL 304 Tropical Biology in alternate year May terms can substitute for 3rd language requirement

¹ Sustainability Electives:

ECON 117 Issues in Environmental Economics

POLI 113 American Government

SOAN 315 Urban Sociology**

STAT 269 Introductory Statistics^a

Organismal and Biodiversity Electives^c:

BIOL 302 Rocky Mountain Ecosystems**

BIOL 304 Tropical Biology**

BIOL 456 Ornithology**

BIOL 458 Herpetology**

Any of the Au Sable Institute (ASI) or Oregon Extension (OE) courses approved for this degree

III. BIBLICAL, RELIGIOUS, and PHILOSOPHICAL STUDIES

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Planning Your Academic Program

1. BIBL 202 must be taken before any other BIBL courses. Students who have taken BIBL 201, 203 or 204 prior to joining the department do not need to take BIBL 202.
2. BIBL 239 should be taken early in your program.
3. It is also recommended that you take THEO 238 relatively early in your program, but not before you've completed BIBL 202.
4. Students in the Congregation Leadership concentration and Youth Ministries majors should take CHRM 210 in their sophomore year.
5. BRS and CRML majors will fulfill their ELI requirement via CHRM 391 or INTE 391. Youth Ministries majors will fulfill their ELI requirement via CHRM 391.
6. All BRS, CRML, and YOUM majors are strongly encouraged to take Biblical Greek or Biblical Hebrew, either of which will satisfy the QuEST requirement for Modern Languages. Hebrew and Greek are offered alternate years.

Guidelines for Mathematical Sciences Courses

There is no specific math course required for BRS majors. Familiarity with digital technology is increasingly important for students in the humanities. Students interested in pursuing digital applications in the humanities should consider taking courses in CIS. The introductory CIS courses to consider include:

CIS 171 Problem Solving with Computers focuses on using computers and software to create reports, images, spreadsheets, web pages, and databases.

CIS 180 Introduction to Computer and Information Science covers both technical and social aspects of computing, including privacy, security, reliability, and ethics.

CIS 181 Introduction to Computer Programming in Python is the introductory programming course for both majors and non-majors.

For students interested in math, we recommend students enroll in MATH 101, MATH 102, or MATH 107 in their first year, unless they have had a pre-calculus course; then they should consider MATH 108. Statistical literacy is another important area of mathematical study, and STAT269 is a course that gives a good introduction to statistical methods and meets the QuEST requirement.

Sample 8-Semester Plans

Biblical and Religious Studies (B.A.)

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
COMM 105	Foundations of Oral Communication*	3	Varies	1 st social science/history meeting QuEST*	3
Varies	Mathematical Science meeting QuEST*	3-4	Varies	Laboratory Science meeting QuEST*	3-4
BIBL 202	Encountering the Bible for Majors	3	BIBL 239	The Biblical Text	3
Total		15	Total		15
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*	3	ENGL 1xx	Literature meeting QuEST*	3
Varies	2 nd social science/history meeting QuEST*	3	THEO 238	Theology I	3
RELI 205	Religions of the World	3	BIBL 3xx	300-level Bible	3
Varies	Elective	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
Total		15	Total		15
Junior – Fall			Junior – Spring		
RELI 344	History of Christianity	3	WELL 1xx	Wellness*	1
Varies	Art/Music/Dance/Theatre meeting Quest*	3	Varies	Non-Western Studies*	3
THEO 305	Theology of Religions	3	THEO 338	Theology II	3
Varies	300-level RELI or THEO	3	Varies	RELI /THEO 366 Topics	3
Varies	Elective	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
Total		18	Total		16
Senior – Fall			Senior – Spring		
Varies	Ethics, World View or Pluralism*	3	Varies	Science, Technology & the World*	3
Varies	CHRM 391 Practicum^ or INTE 391 Internship	3	Varies	300-level RELI or THEO	3
Varies	Elective	3	THEO 487	Senior Seminar	3
Varies	Elective	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
Total		15	Total		15

*fulfills QuEST requirement

^Practicum/Internship can be taken summer, fall, or spring semesters. Additional cost may apply in summer.

Christian Ministries and Leadership (B.A.) with Community Engagement Concentration

Sample 8-semester plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
COMM 105	Foundations of Oral Communication*	3	Varies	1 st social science/history meeting QuEST*	3
Varies	Mathematical Science meeting QuEST*	3-4	CHRM 222 ⊕	Foundations Christian Leadership (alt. yr)	3
BIBL 202	Encountering the Bible for Majors	3	BIBL 239	The Biblical Text	3
Total		15-16	Total		12-15
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*	3	ENGL 1xx	Literature meeting QuEST*	3
Varies	2 nd social science/history meeting QuEST*	3	Varies	Laboratory Science meeting QuEST	3-4
CHRM 330 ⊕	Organization & Leadership for Min. (alt yr)	3	BIBL 3xx	300-level Bible course	3
RELI 205	Religions of the World	3	PACS 201	Basic Conflict Mediation	3
RELI 342	Religious Pluralism in America	3	THEO 238	Christian Theology I	3
Varies	Elective	3			
Total		15-18	Total		15-18
Junior – Fall			Junior – Spring		
Varies	Elective	3	WELL 1xx	Wellness*	1
Varies	Art/Music/Dance/Theatre meeting Quest*	3	Varies	Non-Western Studies*	2-3
RELI 355	Christianity in America	3	CHRM 356	Mobilizing Congregations for Justice	3
THEO 305	Theology of Religions	3	CHRM 352	Interfaith Leadership	3
Varies	Elective	3	THEO 338	Theology II	3
			CHRM 361	Interfaith Leadership	3
Total		12-15	Total		15-16
Senior – Fall			Senior – Spring		
Varies	CHRM 391 ^ or INTE 391 Internship	3	Varies	Science, Technology & the World*	3
SOAN 335	Social Conflict, Justice, and Peacemaking	3	Varies	Elective	3
SOAN 356	Social Inequality	3	CHRM 338	Teaching for Christian Ministries	3
Varies	Elective	3	varies	COMM 307 Rhetoric or RELI 342 Rel. Plur	3
Varies	Elective	3	THEO 487	Senior Seminar	3
Total		15	Total		15

* Meets QuEST requirement

^Practicum/Internship can be taken summer, fall, or spring semesters. Additional cost may apply in summer.

⊕CHRM 222 Foundations in Christian Leadership (better suited for first year and sophomores) and CHRM 330 Organizational Leadership (better suited for Juniors and Seniors) are alternate year courses. Please schedule accordingly.

Christian Ministries and Leadership (B.A.) with Congregational Leadership Concentration

Sample 8-semester plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
COMM 105	Foundations of Oral Communication*	3	Varies	1 st social science/history meeting QuEST*	3
Varies	Mathematical Science meeting QuEST*	3-4	BIBL 239	The Biblical Text	3
BIBL 202	Encountering the Bible for Majors	3	CHRM 210	Theology of Ministry	3
			CHRM 222 ⊕	Foundations in Christian Leadership (alt. yr)	3
Total		15-16	Total		15
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*	3	ENGL 1xx	Literature meeting QuEST*	3
Varies	2 nd social science/history meeting QuEST*	3	Varies	Laboratory Science meeting QuEST	3 or 4
CHRM 323	Worship	3	BIBL 3xx	300-level Bible	3
RELI 205	Religions of the World	3	CHRM 222 ⊕	Foundations in Christian Leadership (alt. yr)	3
Varies	1 of: CHRM 243, 342, or 365	3	THEO 238	Theology I	3
Total		15	Total		15-16
Junior – Fall			Junior – Spring		
Varies	Elective	3	WELL 1xx	Wellness*	1
Varies	Art, Music, Dance, or Theatre meeting Quest*	3	Varies	Non-Western Studies*	2
RELI 355	Christianity in America	3	CHRM 356	Mobilizing Congregations for Justice	3
THEO 305	Theology of Religions	3	CHRM 361	Interfaith Leadership	3
CHRM 330 ⊕	Organization and Leadership for Min.	3	THEO 338	Theology II	3
			Varies	Elective	3
Total		15	Total		15
Senior – Fall			Senior – Spring		
Varies	Elective	3	Varies	Science, Technology & the World*	3
Varies	CHRM 391 ^ or INTE 391 Internship	3	Varies	Elective	3
Varies	Elective	3	CHRM 338	Teaching for Christian Ministries	3
Varies	Elective	3	THEO 487	Senior Seminar	3
Total		12	Total		12

* Meets QuEST requirement

^Practicum/Internship can be taken summer, fall, or spring semesters. Additional cost may apply in summer.

⊕CHRM 222 Foundations in Christian Leadership (better suited for first year and sophomores) and CHRM 330 Organizational Leadership (better suited for Juniors and Seniors) are alternate year courses. Please schedule accordingly.

Philosophy (B.A.)

Sample 8-semester plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
COMM 105	Foundations of Oral Communication*	3	Varies	1 st social science/history meeting QuEST*	3
Varies	Mathematical Science meeting QuEST*	3-4	Varies	Laboratory Science meeting QuEST*	3-4
PHIL 101	Problems of Philosophy	3	Phil 353	Modern Philosophy	3
Total		15-16	Total		15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*	3	ENGL 1xx	Literature meeting QuEST*	3
Varies	2 nd social science/history meeting QuEST*	3	Phil 247	Ancient and Medieval Philosophy	3
BIBL 2xx	Knowledge of the Bible*	3	Phil 318	Asian Philosophy	3
Phil 220	Logic	3	varies	Elective	3
Phil 352	Existentialism	3	varies	Elective	3
Total		15	Total		15
Junior – Fall			Junior – Spring		
Varies	Christian Beliefs* (THEO 205 rec)	3	WELL 1xx	Wellness*	1
Varies	Art/Music/Dance/Theatre meeting Quest*	3	Varies	Non-Western Studies*	3
Phil 220	Logic	3	Phil 362	Philosophy of Science	3
Phil342	Aesthetics	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
Total		18	Total		16
Senior – Fall			Senior – Spring		
Varies	Ethics, World View or Pluralism*	3	Varies	Science, Technology & the World*	3
Phil 460	Senior Seminar	3	Phil 382	Ethics	3
Varies	Elective	3	Phil 356	Minds and Machines	3
Varies	Elective	3	Phil 345	Philosophy of Religion	3
Varies	Elective	3	Varies	Elective	3
Total		15	Total		15

* Meets QuEST requirement

Youth Ministries (B.A.)

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
COMM 105	Foundations of Oral Communication*	3	Varies	Laboratory Science meeting QuEST*	3-4
BIBL 202	Encountering the Bible for Majors	3	BIBL 239	The Biblical Text	3
CHRM 235	Youth Ministry I	3	CHRM 210	Theology of Ministry	3
Total		156	Total		15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*	3	ENGL 1xx	Literature meeting QuEST*	3
Varies	Mathematical Science meeting QuEST*	3-4	HIST xxx	HIST 1xx or 2xx meeting QuEST History*	3
CHRM 225	Field Experience	2	BIBL 3xx	300-Level Bible	3
Varies	QuEST Philosophy or Religion	3	THEO 238	Theology I	3
Varies	HDFS 101 or PSYC 101 or EDUC 203		CHRM 242	Christian Spirituality	3
Total		15	Total		15
Junior – Fall			Junior – Spring		
Varies	Art/Music/Dance/Theatre meeting Quest*	3	WELL 1xx	Wellness*	1
HDFS 311	Adolescent Development	3	Varies	Non-Western Studies*	2-3
CHRM 330	Organization and Leadership	3	CHRM 336	Youth Ministry II	3
CHRM 365	Creative Communication of the Gospel	3	CHRM 338	Teaching for Christian Ministries	3
RELI 344	History of Christianity	3	THEO 338	Theology II	3
			Varies	Elective	3
Total		15	Total		15-16
Senior – Fall			Senior – Spring		
Varies	CHRM 243 or CHRM 352 or THEO 305	3	Varies	Science, Technology & the World*	3
Varies	CHRM 391 Practicum [^] or INTE 391 Internship	3	Varies	Ethics, World View or Pluralism*	3
Varies	Elective	3	THEO 487	Senior Seminar	3
Varies	Elective	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
Total		15	Total		15

* Meets QuEST requirement

[^]Practicum/Internship can be taken summer, fall, or spring semesters. Additional cost may apply in summer.

III. BUSINESS

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Guidelines for Mathematical Sciences Courses

All students in these majors are required to take one of: MATH 107, MATH 108, or MATH 111, except for Finance and Economics majors who must choose MATH 108 or MATH 111. MATH 108 is a calculus course without a lab component that does not include trigonometric functions. MATH111 is a more rigorous calculus course, advised for students who are planning to attend graduate school.

Students with Advanced Placement credit: Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. The College awards the following credit for AP scores:

If you took this AP exam	And scored:	Then you will receive credit for	And should enroll in
Computer Science A	3, 4, or 5	CIS 181 (3 credits)	CIS 182
Computer Science AB	3 4 or 5	CIS 181 (3 credits) CIS 181, 182 (6 credits)	CIS 182, CIS 281
Calculus AB	3 or 4 5	MATH 111 (4 credits) MATH 111, 112 (8 credits)	MATH 112 MATH 112 or MATH 211
Calculus BC	2 3 4 or 5	MATH 111 (4 credits) MATH 111,112 (8 credits) MATH 111,112, 211 (12 credits)	MATH 112 MATH 112 or MATH 211 MATH 261 or MATH 308
Physics B	3 4 or 5	PHYS 201 (4 credits) PHYS 201, 202 (8 credits)	PHYS 202 or PHYS 212**
Physics C: Mechanics	3, 4 or 5	PHYS 211 (4 credits)	PHYS 212
Physics C: E&M	3, 4 or 5	PHYS 211, 212 (8 credits)	MATH 111,112, 211,or 308
Statistics	3, 4 or 5	STAT 269 (3 credits)	STAT 281***

* Students who receive credit for MATH 112 are not necessarily advised to bypass the course. Our MATH 112 course covers infinite sequences and series, which are typically not included in AP courses. Talk to your academic advisor or the Mathematical Sciences Department Chair about your particular situation.

** Mathematics majors are required to take the PHYS 211/212 sequence rather than PHYS 201/202. However, if a student receives AP credit for both PHYS 201 and 202, the 211/212 requirements are waived.

*** AP Statistics is not a calculus-based course or exam. Mathematics majors who receive AP credit for Statistics are still required to take STAT 281 for the major requirement.

**Accounting (B.S.)
8 Semester Plan**

*QuEST requirement

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
ACCT 141	Financial Accounting	3	ACCT 242	Managerial Accounting	3
BUSA 102	Opportunities in Business	1	ECON 220	Principles of Microeconomics	3
COMM 105	Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	Varies	1st language*	3
CIS 190	Strategic Use of Information Technology	3	MATH 107, 108 <u>or</u> 111	Applied Math for Management, intuitive Calculus with App., <u>or</u> Calculus I	3-4
ECON 120	Macroeconomics	3			
WELL xxx	Wellness course* (1 st or 2 nd year)	1			
TOTAL		17	TOTAL		15-16
Sophomore – Fall			Sophomore – Spring		
ACCT 343	Cost Accounting	3	ACCT 301	Intermediate Accounting I	3
BUSA 120	Principles of Management	3	ENGL xxx	Literature* (1 st or 2 nd year)	3
FINA 305	Financial Management	3	HIST	History* (1 st or 2 nd year)	3
Varies	2nd language (1 st or 2 nd year)	3	MRKT 130	Marketing Principles	3
Varies	Laboratory Science* (1 st year)	3-4	Varies	3rd language/Cross Cultural* (2 nd or 3 rd yr)	3
			Varies	Free Elective/Minor	3
TOTAL		15-16	TOTAL		18
Junior – Fall			Junior – Spring		
ACCT 302	Intermediate Accounting II	3	ACCT 303	Intermediate Accounting III	3
ACCT 347	Federal Individual Income Taxes	3	BUSA 370	Moral Issues in Business	3
STAT 281	Applied Statistics for Management	3	BUSA 381	Business Law	3
BIBL 20x	Knowledge of the Bible* (2 nd yr)	3	Varies	Art, Music or Theatre* (1 st or 2 nd year)	3
PHIL/RELI	Philosophy/Religion* (1 st or 2 nd year)	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd yr)	3
TOTAL		15	TOTAL		15
Senior – Fall			Senior – Spring		
ACCT 440	Advanced Accounting	3	Varies	Free Elective/Minor	3
ACCT 442	Auditing	3	Varies	Free Elective/Minor	3
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3	Varies	Free Elective/Minor	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd yr)	2-3	Varies	Free Elective	3
BUSA 501	Business Strategy and Execution	3	Varies	Free Elective	3
TOTAL		14-15	TOTAL		15

**Business Administration (B.S.)
8 Semester Plan**

*QuEST requirement

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
ACCT 141	Financial Accounting	3	Varies	Free Elective	3
BUSA 102	Opportunities in Business	1	ECON 120	Macroeconomics	3
COMM 105	Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	Varies	2 nd language* (1 st or 2 nd year)	3
Varies	1 st language*	3	MATH 107, 108 or 111	Applied Math for Management, intuitive Calculus with App., <u>or</u> Calculus I	3-4
BUSA 120	Principles of Management	3			
		TOTAL			TOTAL
		16			15-16
Sophomore – Fall			Sophomore – Spring		
CIS 190	Strategic Use of Information Technology	3	ECON 220	Principles of Microeconomics	3
ENGL xxx	Literature* (1st or 2nd year)	3	HIST xxx	History* (1 st or 2 nd year)	3
Varies	Laboratory Science* (1st year)	3-4	Varies	HRM or LEAD Elective	3
MRKT 130	Marketing Principles	3	Varies	3 rd language/Cross Cultural* (2 nd or 3 rd yr)	3
WELL xxx	Wellness course* (1st or 2nd year)	1	STAT 281	Applied Statistics for Management	3
ACCT 242	Managerial Accounting	3			
		TOTAL			TOTAL
		16-17			15
Junior – Fall			Junior – Spring		
BIBL 20x	Knowledge of the Bible* (2nd year)	3	Varies	Art, Music or Theatre* (1 st or 2 nd year)	3
PHIL/RELI	Philosophy/Religion* (1st or 2nd year)	3	BUSA 381	Business Law	3
Varies	Major Option: BUSA, ECON or MRKT	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
Varies	Major Elective	3	FINA 305	Financial Management	3
Varies	Free Elective	3	Varies	Major Elective	3
		TOTAL			TOTAL
		15			15
Senior – Fall			Senior – Spring		
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3	BUSA 501	Business Strategy and Execution	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3	Varies	Major Elective	3
Varies	Major Elective	3	Varies	Free Elective	3
Varies	Major Elective	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Ethics/World View/Pluralism*	3
Varies	Free Elective	3			
		TOTAL			TOTAL
		17-18			15

**Business Administration (B.S.) Entrepreneurship Concentration
8 Semester Plan**

*QuEST requirement

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
ACCT 141	Financial Accounting	3	ECON 120	Macroeconomics	3
BUSA 102	Opportunities in Business	1	IDCR 151	Created and Called for Community*	3
COMM 105	Oral Communication*	3	Varies	2 nd Language* (1 st or 2 nd year)	3
IDFY 101	First Year Seminar*	3	MATH 107, 108 <u>or</u> 111	Applied Math for Management, intuitive Calculus with App., <u>or</u> Calculus I	3-4
Varies	1 st Language*	3	CIS 190	Strategic Use of Information Technology	3
BUSA 120	Principles of Management	3			
		TOTAL			TOTAL
		16			15-16
Sophomore – Fall			Sophomore – Spring		
ACCT 242	Managerial Accounting	3	HIST xxx	History* (1 st or 2 nd year)	3
ENGL xxx	Literature* (1 st or 2 nd year)	3	BIBL 20x	Knowledge of the Bible* (2 nd year)	3
Varies	Laboratory Science* (1 st year)	3-4	Varies	3 rd language/Cross Cultural* (2 nd or 3 rd yr)	3
MRKT 130	Marketing Principles	3	STAT 281	Applied Statistics for Management	3
WELL xxx	Wellness course* 1 st or 2 nd year)	1	Varies	Free Elective	3
ECON 220	Principles of Microeconomics	3	Varies	Free Elective	3
		TOTAL			TOTAL
		16-17			18
Junior – Fall			Junior – Spring		
MRKT 339	Market Research	3	varies	Art, Music or Theatre* (1 st or 2 nd year)	3
PHIL/RELI	Philosophy/Religion* (1 st or 2 nd year)	3	BUSA 381	Business Law	3
BUSA 380	Small Business Development	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
Varies	Major Elective	3	Varies	Free Elective	3
FINA 305	Financial Management	3	BUSA 385	Entrepreneurship	3
		TOTAL			TOTAL
		15			15
Senior – Fall			Senior – Spring		
IDST xxx	Science, Tech, & World* (3 rd year or 4 th)	3	BUSA 501	Business Strategy and Execution	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3	BUSA 356, 360, 405 or ECON 302	Decision-Making Tools, Operations Management, Supply Chain Management, <u>or</u> Intermediate Microeconomics	3
LEAD 312 or MRKT 333, 337, 357	Leading Org. Change, Consumer Behavior, Integrated Marketing Comm., Personal Selling	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
BUSA 310	Business as a Ministry	3	Varies	Ethics/World View/Pluralism*	3
		TOTAL			TOTAL
		14-15			15

**Business Administration (B.S.) Human Resource Management Concentration
8 Semester Plan**

*QuEST requirement

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
ACCT 141	Financial Accounting	3	CIS 190	Strategic Use of Information Technology	3
BUSA 102	Opportunities in Business	1	ECON 120	Macroeconomics	3
COMM 105	Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	Varies	2 nd language* (1 st or 2 nd year)	3
Varies	1 st language*	3	MATH 107, 108 <u>or</u> 111	Applied Math for Management, intuitive Calculus with App., <u>or</u> Calculus I	3-4
BUSA 120	Principles of Management	3			
		TOTAL			16
			First Year – Spring		
					TOTAL
					15-16
Sophomore – Fall			Sophomore – Spring		
ACCT 242	Managerial Accounting	3	ECON 220	Principles of Microeconomics	3
Varies	Free Elective	3	HIST xxx	History* (1 st or 2 nd year)	3
ENGL xxx	Literature* (1 st or 2 nd year)	3	HRM 301	Human Resource Management	3
HRM 311	Organizational Behavior	3	PHIL/RELI	Philosophy/Religion* (1 st or 2 nd year)	3
MRKT 130	Marketing Principles	3	STAT 281	Applied Statistics for Management	3
WELL xxx	Wellness course* (1 st or 2 nd year)	1			
		TOTAL			16-17
			Sophomore – Spring		
					TOTAL
					15
Junior – Fall			Junior – Spring		
BIBL 20x	Knowledge of the Bible* (2 nd or 3 rd year)	3	Varies	Art, Music or Theatre* (1 st or 2 nd year)	3
Varies	3 rd language/Cross Cultural* (2 nd or 3 rd yr)	3	BUSA 381	Business Law	3
HRM 312	Leading Organizational Change	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
Varies	Major Elective	3	FINA 305	Financial Management	3
Varies	Free Elective	3	Varies	Laboratory Science* (1 st year)	3-4
		TOTAL			15
			Junior – Spring		
					TOTAL
					15-16
Senior – Fall			Senior – Spring		
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3	BUSA 501	Business Strategy and Execution	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3	Varies	Major Elective	3
HRM or ECON	Major Option	3	Varies	Free Elective	3
BUSA, ECON or MRKT	Major Option	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Ethics/World View/Pluralism*	3
Varies	Free Elective	3			
		TOTAL			17-18
			Senior – Spring		
					TOTAL
					15

**Business Administration (B.S.) Leadership Concentration
8 Semester Plan**

*QuEST requirement

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
ACCT 141	Financial Accounting	3	CIS 190	Strategic Use of Information Technology	3
BUSA 102	Opportunities in Business	1	ECON 120	Macroeconomics	3
COMM 105	Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	Varies	2 nd language* (1 st or 2 nd year)	3
Varies	1 st language*	3	MATH 107, 108 or 111	Applied Math for Management, intuitive Calculus with App., <u>or</u> Calculus I	3-4
BUSA 120	Principles of Management	3			
		TOTAL			TOTAL
		16			15-16
Sophomore – Fall			Sophomore – Spring		
ACCT 242	Managerial Accounting	3	HIST xxx	History* (1 st or 2 nd year)	3
ENGL xxx	Literature* (1 st or 2 nd year)	3	BUSA 310	Business as a Ministry	3
Varies	Laboratory Science* (1 st year)	3-4	Varies	3 rd language/Cross Cultural* (2 nd or 3 rd yr)	3
MRKT 130	Marketing Principles	3	STAT 281	Applied Statistics for Management	3
WELL xxx	Wellness course* (1 st or 2 nd year)	1	Varies	Free Elective	3
ECON 220	Principles of Microeconomics	3	Varies	Free Elective	3
		TOTAL			TOTAL
		16-17			18
Junior – Fall			Junior – Spring		
BIBL 20x	Knowledge of the Bible* (2 nd year)	3	varies	Art, Music or Theatre* (1 st or 2 nd year)	3
PHIL/RELI	Philosophy/Religion* (1 st or 2 nd year)	3	BUSA 381	Business Law	3
LEAD 310	Leadership Theory & Development	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
LEAD 312	Leading Organizational Change	3	FINA 305	Financial Management	3
Varies	Free Elective	3	LEAD 320	Learning to Lead (J-Term)	3
		TOTAL			TOTAL
		15			15
Senior – Fall			Senior – Spring		
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3	BUSA 501	Business Strategy and Execution	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3	Varies	Major Elective	3
COMM 301, 333, 353 or HRM 311	Persuasion, Business & Org. Communication, Crisis Comm & Media Relations, <u>or</u> Organizational Behavior	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
BUSA 356	Decision-Making Tools in Management	3	Varies	Ethics/World View/Pluralism*	3
		TOTAL			TOTAL
		14-15			15

**Business Administration (B.S.) Technology and Operations Management Concentration
8 Semester Plan**

*QuEST requirement

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
ACCT 141	Financial Accounting	3	CIS 190	Strategic Use of Information Technology	3
BUSA 102	Opportunities in Business	1	ECON 120	Principles of Macroeconomics	3
COMM 105	Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	Varies	2 nd language* (1 st or 2 nd year)	3
Varies	1 st language*	3	MATH 107, 108 or 111	Applied Math for Management, intuitive Calculus with App., <u>or</u> Calculus I	3-4
BUSA 120	Principles of Management	3			
		TOTAL	16		
				TOTAL	15-16
Sophomore – Fall			Sophomore – Spring		
ACCT 242	Managerial Accounting	3	HIST xxx	History* (1 st or 2 nd year)	3
ENGL xxx	Literature* (1 st or 2 nd year)	3	Varies	3 rd language/Cross Cultural* (2 nd or 3 rd yr)	3
Varies	Laboratory Science* (1st year)	3-4	STAT 281	Applied Statistics for Management	3
MRKT 130	Marketing Principles	3	Varies	Free Elective	3
WELL xxx	Wellness course* (1 st or 2 nd year)	1	Varies	Free Elective	3
ECON 220	Principles of Microeconomics	3			
		TOTAL	16-17		
				TOTAL	15
Junior – Fall			Junior – Spring		
BIBL 20x	Knowledge of the Bible* (2 nd year)	3	varies	Art, Music or Theatre* (1 st or 2 nd year)	3
PHIL/RELI	Philosophy/Religion* (1 st or 2 nd year)	3	BUSA 381	Business Law	3
Varies	Free Elective	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
CIS xxx	CIS option	3	FINA 305	Financial Management	3
BUSA 405	Supply Chain Management	3	Varies	Free Elective	3
		TOTAL	15		
				TOTAL	15
Senior – Fall			Senior – Spring		
BUSA 358	Making a Better World?	3	BUSA 501	Business Strategy and Execution	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3	Varies	Major Elective	3
Varies	Major Elective	3	Varies	Free Elective	3
Varies	Free Elective	3	CIS xxx	CIS option	3
BUSA 360	Operations Management	3	Varies	Ethics/World View/Pluralism*	3
Varies	Free Elective	3			
		TOTAL	17-18		
				TOTAL	15

**Economic Development (B.A.)
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
COMM 105	Oral Communication*	3	ECON 220	Principles of Macroeconomics	3
BUSA 102	Opportunities in Business	1	WELL 1xx	Wellness course*	1
ECON 120	Principles of Macroeconomics*	3	BUSA 120	Principles of Management	3
MATH 108 or MATH 111	Intuitive Calculus with Applications or Calculus I*	3-4	STAT 269 or STAT 281	Introductory Statistics	3
Varies	1 st language*	3	Varies	2 nd language* (1 st or 2 nd year)	3
TOTAL		16-17	TOTAL		16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd Language or Cross Cultural*	3	HIST 1xx	History* (1 st or 2 nd year) meeting QuEST	3
BIBL 20x	Knowledge of the Bible* (2 nd year)	3	PHIL/RELI	Philosophy/Religion* (1 st or 2 nd year)	3
SOAN 212	Cultural Anthropology*	3	ACCT 131	Survey of Accounting	3
MRKT 130	Marketing Principles	3	ECON 312	Economic Development I	3
POLI 212 or 213	International Politics or Comparative Politics	3	ENGL 1xx	Literature* meeting QuEST	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
ECON 301 or ECON 302	Intermediate Macroeconomics or Intermediate Microeconomics	3	ECON 303 or IBI 331	Comparative Political Economy or Comparative Economic Systems	3
ECON 313	Economic Development II	3	FINA 305	Financial Management	3
ECON 371	Microfinance	3	Varies	Economic Development Elective	3
THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3	Varies	Laboratory Science*	3-4
Varies	Free Elective	3	Varies	Ethics/World View/Pluralism***	3
TOTAL		15	TOTAL		15
Senior – Fall			Senior – Spring		
ECON 301 or ECON 302	Intermediate Macroeconomics or Intermediate Microeconomics	3	BUSA 501	Business Strategy and Execution	3
IBI 350 or IBUS 375	International Trade and Finance or International Business and World Economy	3	Varies	Economic Development Elective	3
Varies	Art, Music or Theatre* (1 st or 2 nd year)	3	Varies	Free Elective or minor	3
Varies	Science, Tech & the World **	3	Varies	Free Elective or minor	3
Varies	Free Elective or minor	3	Varies	Free Elective or minor	3
TOTAL		15	TOTAL		15

*Meets QuEST requirement.

** Not needed if completing BIOL 216 as an Economic Development elective

***Not needed if completing ENVS 315 as an Economic Development elective

**Economics (B.A.)
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
ECON 120	Principles of Macroeconomics	3	ECON 220	Principles of Microeconomics	3
BUSA 102	Opportunities in Business	1	WELL xxx	Wellness course* (1st or 2nd year)	1
MATH 108 or MATH 111	Intuitive Calculus with Applications or Calculus I*	3-4	STAT 269 or STAT 281	Introductory Statistics Applied Statistics for Management	3
Varies	1st language*	3	Varies	2nd language* (1st or 2nd year)	3
COMM 105	Oral Communication*	3	BUSA 120	Principles of Management	3
TOTAL		16-17	TOTAL		16
Sophomore – Fall			Sophomore – Spring		
BIBL 20x	Knowledge of the Bible* (2nd year)	3	PHIL/RELI	Philosophy/Religion* (1st or 2nd year)	3
Varies	3rd Language or Cross Cultural	3	FINA 305	Financial Management	3
ACCT 141	Financial Accounting	3	ENGL 1xx	Literature* meeting QuEST	3
CIS 190	Strategic Use of Information Technology	3	HIST 1xx	History* (1 st or 2 nd year) meeting QuEST	3
MRKT 130	Marketing Principles	3	varies	Art, Music or Theatre* (1st or 2nd year)	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
ECON 301 or ECON 302	Intermediate Macroeconomics or Intermediate Microeconomics	3	ECON 303 or IBI 331	Comparative Political Economy or Comparative Economic Systems	3
ECON or IBUS	Economics Option	3	ECON	Economics Option	3
THEO 2xx	Christian Beliefs* (2nd or 3rd year)	3	Varies	Laboratory Science*	3-4
Varies	Ethics/World View/Pluralism***	3	Varies	Free Elective or minor	3
Varies	Free Elective or minor	3	Varies	Free Elective or minor	3
TOTAL		15	TOTAL		15-16
Senior – Fall			Senior – Spring		
ECON 301 or ECON 302	Intermediate Macroeconomics or Intermediate Microeconomics	3	ECON	Economics Option	3
ECON or IBUS	Economics Option	3	Varies	Science, Tech & the World **	3
Varies	Non-Western Studies*	2-3	Varies	Free Elective or minor	3
Varies	Free Elective or minor	3	Varies	Free Elective or minor	3
Varies	Free Elective or minor	3	Varies	Free Elective or minor	3
TOTAL		14-15	TOTAL		15

*QuEST requirement

**Economics (B.S.)
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
ECON 120	Principles of Macroeconomics	3	ECON 220	Principles of Microeconomics	3
BUSA 102	Opportunities in Business	1	WELL xxx	Wellness course* (1st or 2nd year)	1
MATH 108 or MATH 111	Intuitive Calculus with Applications or Calculus I*	3-4	STAT 269 or STAT 281	Introductory Statistics Applied Statistics for Management	3
Varies	1st language*	3	Varies	2nd language* (1st or 2nd year)	3
COMM 105	Oral Communication*	3	BUSA 120	Principles of Management	3
		TOTAL			16-17
			TOTAL		16
Sophomore – Fall			Sophomore – Spring		
BIBL 20x	Knowledge of the Bible* (2nd year)	3	PHIL/RELI	Philosophy/Religion* (1st or 2nd year)	3
Varies	3rd Language or Cross Cultural	3	FINA 305	Financial Management	3
ACCT 141	Financial Accounting	3	ACCT 242	Managerial Accounting	3
CIS 190	Strategic Use of Information Technology	3	CIS 190	Strategic Use of Information Technology	3
MRKT 130	Marketing Principles	3	ENGL 1xx	Literature* meeting QuEST	3
		TOTAL			15
			TOTAL		15
Junior – Fall			Junior – Spring		
ECON 301 or ECON 302	Intermediate Macroeconomics or Intermediate Microeconomics	3	ECON 303 or IBI 331	Comparative Political Economy or Comparative Economic Systems	3
ECON or IBUS	Economics Option	3	ECON	Economics Option	3
BUSA 381	Business Law	3	BUSA 356	Decision- Making Tools in Management	3
HIST 1xx	History* (1st or 2nd year) meeting QuEST	3	THEO 2xx	Christian Beliefs* (2nd or 3rd year)	3
Varies	Art, Music or Theatre* (1st or 2nd year)	3	Varies	Science, Tech & the World **	3
		TOTAL			15
			TOTAL		15
Senior – Fall			Senior – Spring		
ECON 301 or ECON 302	Intermediate Macroeconomics or Intermediate Microeconomics	3	ECON	Economics option	3
ECON or IBUS	Economics Option	3	BUSA 501	Business Strategy and Execution	3
Varies	Laboratory Science*	3-4	Varies	Ethics/World View/Pluralism***	3
Varies	Non-Western Studies*	2-3	Varies	Free Elective or minor	3
Varies	Free Elective or minor	3	Varies	Free Elective or minor	3
		TOTAL			14-16
			TOTAL		15

*QuEST requirement

**International Business (B.S.)
8 Semester Plan**

*QuEST requirement

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
ACCT 141	Financial Accounting	3	CIS 190	Strategic Use of Information Technology	3
BUSA 102	Opportunities in Business	1	ACCT	Managerial Accounting	3
COMM 105	Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	BUSA 120	Principles of Management	3
MATH 107, 108 <u>or</u> 111	Applied Math for Management, Intuitive Calculus with App., <u>or</u> Calculus I	3-4	Varies	Language Elective	3
Varies	Language Elective	3			
TOTAL		16-17	TOTAL		15
Sophomore – Fall			Sophomore –		
ECON 120	Macroeconomics	3	ECON 220	Principles of Microeconomics	3
ENGL xxx	Literature* (1 st or 2 nd year)	3	HIST xxx	History* (1 st or 2 nd year)	3
Varies	Laboratory Science* (1 st year)	3-4	Varies	Art, Music or Theatre* (1 st or 2 nd year)	3
MRKT 130	Marketing Principles	3	STAT 281	Applied Statistics for Management	3
WELL xxx	Wellness course* (1 st or 2 nd year)	1	Varies	Free Elective	3
Varies	Language Elective	3	Varies	Language Elective	3
TOTAL		16-17	TOTAL		18
Junior – Fall			Junior – Spring		
BIBL 20x	Knowledge of the Bible* 2 nd year)	3	FINA 305	Financial Management	3
PHIL/RELI	Philosophy/Religion* (1 st or 2 nd year)	3	BUSA 381	Business Law	3
IBUS 375	International Business & World Economy	3	BUSA 310 <u>or</u> IBUS 342	Business as a Ministry Global Entrepreneurship	3
Varies	Ethics/World Views/Pluralism*	3	Varies	Free Elective	2
BUSA 405 <u>or</u> POLI 212	Supply Chain Management International Politics	3	ECON 312 <u>or</u> HRM 311	Economic Development Organizational Behavior	3
			THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
TOTAL		15	TOTAL		17
Summer- International Business Institute (12 credits)					
IBI 331	Comparative Economic Systems	3	IBI 350	International Trade and Finance	3
IBI 339	Global Marketing	3	IBI 390	Global Business Strategy	3
				TOTAL	12
Senior – Fall			Senior – Spring		
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3			
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3			
BUSA 501	Business Strategy and Execution	3			
Varies	Free Elective	3			
Varies	Free Elective	3			
TOTAL		14-15	TOTAL		0

**Business Administration (B.A.)
8 Semester Plan**

*QuEST requirement

Course selection will vary significantly depending on primary major

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
ACCT 141	Financial Accounting	3	ECON 120	Macroeconomics	3
BUSA 102	Opportunities in Business	1	IDCR 151	Created and Called for Community*	3
COMM 105	Oral Communication*	3	Varies	2 nd language* (1 st or 2 nd year)	3
IDFY 101	First Year Seminar*	3	BUSA 120	Principles of Management	3
Varies	1 st language*	3	Varies	Primary Major Course	3
Varies	Primary Major Course	3	Varies	Primary Major Course	3
		TOTAL			16
Sophomore – Fall			Sophomore – Spring		
CIS 190	Strategic Use of Information Technology	3	ECON 220	Principles of Microeconomics	3
ENGL xxx	Literature* (1 st or 2 nd year)	3	HIST xxx	History* (1 st or 2 nd year)	3
Varies	Laboratory Science* (1 st year)	3-4	Varies	3 rd language/Cross Cultural* (2 nd or 3 rd yr)	3
MRKT 130	Marketing Principles	3	Varies	Primary Major Course	3
WELL xxx	Wellness course* (1 st or 2 nd year)	1	MATH 107, 108 <u>or</u> 111	Applied Math for Management, Intuitive Calculus with App., <u>or</u> Calculus I	3-4
ACCT 242	Managerial Accounting	3			
		TOTAL			16-17
Junior – Fall			Junior – Spring		
BIBL 20x	Knowledge of the Bible* (2 nd year)	3	varies	Art, Music or Theatre* (1 st or 2 nd year)	3
PHIL/RELI	Philosophy/Religion* (1 st or 2 nd year)	3	BUSA 381	Business Law	3
INTE 391	Internship	2	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
Varies BUSA 3xx or 4xx	BUSA or ACCT or ECON or FIN or HRM or LEAD or MRKT Department Elective	3	FINA 305	Financial Management	3
Varies	Primary Major Course	3	Varies	Primary Major Course	3
Varies	Primary Major Course	3			
		TOTAL			17
Senior – Fall			Senior – Spring		
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3	BUSA 501	Business Strategy and Execution	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3	Varies	Ethics/World View/Pluralism*	3
Varies 3xx or 4xxx	BUSA or ACCT or ECON or FIN or HRM or LEAD or MRKT Department Elective	3	Varies	Primary Major Course	3
Varies	Primary Major Course	3	Varies	Primary Major Course	3
Varies	Primary Major Course	3	Varies	Primary Major Course	3
		TOTAL			14-15
		TOTAL			18
		TOTAL			15
		TOTAL			15

Note: This major is a secondary major; it may not be declared as a primary major or a stand-alone major. Students must have at least 24 unique courses in both their primary and secondary major. Students graduating with this as part of a double major receive a single degree, with two majors (e.g. a Bachelors of Arts from Messiah majoring in both x and Business Administration). Students declaring this Business Administration B.A. as their secondary major must complete the QuEST requirements of the primary major.

**Marketing (B.S.)
8 Semester Plan**

*QuEST requirement

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
COMM 105	Oral Communication*	3	Varies	2 nd language* (1 st or 2 nd year)	3
Varies	1 st language*	3	varies	Laboratory Science* (1 st year)	3-4
MATH 107, 108 <u>or</u> 111	Applied Math for Management, intuitive Calculus with App., <u>or</u> Calculus I	3-4	ACCT 131	Survey of Accounting	3
BUSA 102	Opportunities in Business	1	ECON 120	Macroeconomics*	3
MRKT 130	Marketing Principles	3			
	TOTAL	16-17		TOTAL	15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3	ENGL xxx	Literature* (1 st or 2 nd year)	3
WELL xxx	Wellness activity* (1 st or 2 nd year)	1	varies	History*	3
ECON 220	Principles of Microeconomics	3	BIBL 20x	Knowledge of the Bible* (1 st or 2 nd year)	3
STAT 281	Applied Statistics for Management	3	BUSA 120	Principles of Management	3
MRKT 333	Consumer Behavior	3	MRKT 337	Integrated Marketing Communications	3
CIS 190	Strategic Use of Information Technology	3		Elective	3
	TOTAL	16		TOTAL	18
Junior – Fall			Junior – Spring		
varies	Philosophy/Religion* (1 st or 2 nd year)	3	ARTS xxx	Arts* (1 st or 2 nd year)	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
BUSA 381	Business Law	3	MRKT 362/4	Social Media or Digital Marketing	3
MRKT 339	Market Research	3	MRKT xxx	Marketing Specialization Course	3
FINA 305	Financial Management	3		Elective	3
	TOTAL	14-15		TOTAL	15
Senior – Fall			Senior – Spring		
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3	IDS xxx	Ethics/Pluralism/World Views*	3
BUSA 501	Business Strategy and Execution	3	MRKT 438	Marketing Management & Strategy	3
MRKT xxx	Marketing Specialization Course	3	MRKT xxx	Marketing Specialization Course	3
	Elective	3		Elective	3
	Elective	3		Elective	3
	TOTAL	15		TOTAL	15

**Finance (B.S.) Financial Planning concentration
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
COMM 105	Oral Communication*	3	Varies	2 nd language* (1 st or 2 nd year)	3
Varies	1 st language*	3	Varies	Laboratory Science* (1 st year)	3-4
MATH 107, 108 or 111	Applied Mathematics for Management (3), Intuitive Calculus with Applications (3), or Calculus I (4)	3-4	ACCT 141	Financial Accounting	3
BUSA 102	Opportunities in Business	1	ECON 120	Macroeconomics	3
BUSA 120	Principles of Management	3			
TOTAL		16-17	TOTAL		15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language/Cross Cultural* (2 nd or 3 rd)	3	ENGL xxx	Literature* (1 st or 2 nd year)	3
ECON 220	Principles of Microeconomics	3	HIST	History* (1 st or 2 nd year)	3
MRKT 130	Marketing Principles	3	WELL xxx	Wellness course* (1 st or 2 nd year)	1
ACCT 242	Managerial Accounting	3	CIS 190	Strategic Use of Information Technology	3
	Elective	3	STAT 281	Applied Statistics for Management	3
			FINA 305	Financial Management	3
TOTAL		15	TOTAL		16
Junior – Fall			Junior – Spring		
PHIL/RELI	Philosophy/Religion* (1 st or 2 nd year)	3	Varies	Art, Music or Theatre* (1 st or 2 nd year)	3
FINA 340	Estate Planning	3	BIBL 20x	Knowledge of the Bible* (2 nd year)	3
ACCT 347	Federal Business Taxes	3	FINA 345	Retirement Planning	3
THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3	FINA 307	Money and Financial Markets	3
FINA 351	Investments	3	ACCT 301	Intermediate Accounting I	3
	Elective	3			
TOTAL		18	TOTAL		15
Senior – Fall			Senior – Spring		
BUSA 501	Business Strategy and Execution	3	FINA 445	Financial Planning Capstone	3
FINA 440	Insurance and Risk Management	3	IDS xxx	Ethics/Pluralism/World Views* (3 rd or 4 th)	3
IDST xxx	Science, Tech, & World* (3 rd or 4 th)	3	BUSA 381	Business Law	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3		Elective	3
	Elective	3		Elective	3
TOTAL		14-15	TOTAL		15

*QuEST requirement

III. CHEMISTRY AND BIOCHEMISTRY

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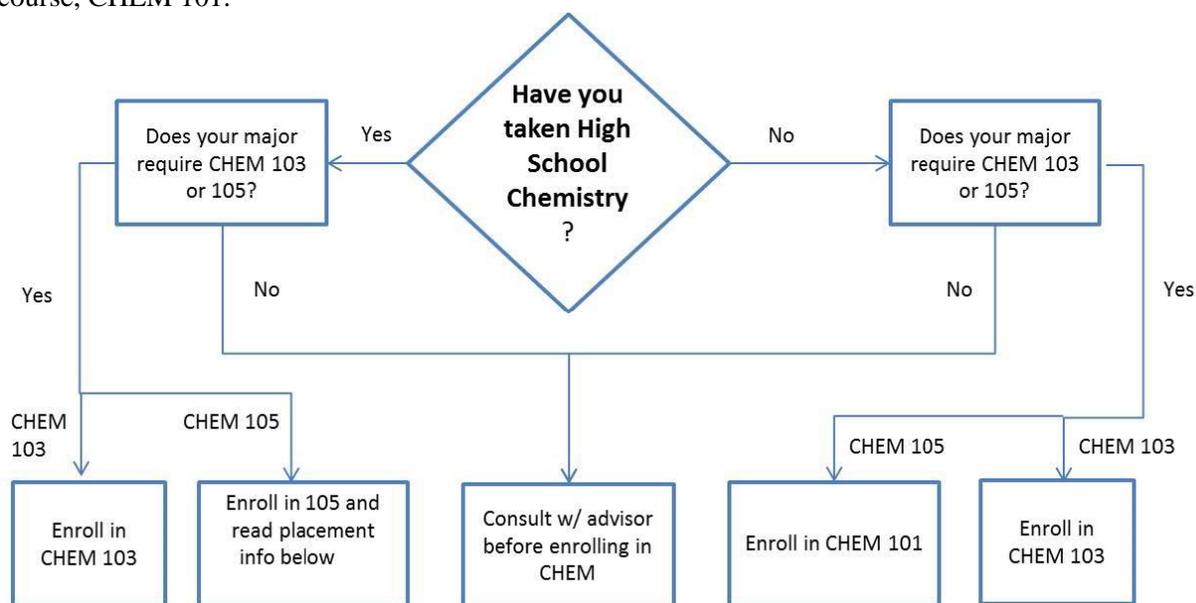
American Chemical Society Certification

As an approved program of the American Chemical Society, the Department of Chemistry and Biochemistry is able to offer B.S. degrees in both Chemistry and Biochemistry Certified by the American Chemical Society. The certification requirements go beyond the requirements for the college's B.S. degrees.

Guidelines for Chemistry Courses

General Chemistry I and II are standard, college-level chemistry courses for science majors and some health programs. CHEM 105, General Chemistry I has a prerequisite of high school chemistry. If you have not taken high school chemistry, you cannot enroll in General Chemistry I. You should instead take CHEM 101 Introduction to College Chemistry. CHEM 101 uses the same text as CHEM 105 General Chemistry I, but moves slower, and focuses more intentionally on the mathematics necessary for success in General Chemistry. CHEM 101 does not have a lab component and therefore does not meet QuEST requirements. It is offered in the fall semester.

All students will be required to complete a 20-point math assessment on the first day of class, and score at least 5 out of 20. This assessment is taken without a calculator and emphasizes a conceptual understanding of numbers, units, exponential notation, fractions and some algebra. All students who receive a score less than 5 on this math assessment, must enroll in our Introductory College Chemistry course, CHEM 101.



If you have any reason to suspect that your preparation in high school chemistry and algebra is less than adequate, it would be advisable to not schedule another non-chemistry course during the period CHEM 101, Introduction to College Chemistry, will be offered. CHEM 101 is offered MWF, 11:00 – 11:50. This will make the shift into that course, should it be required, very easy.

Guidelines for Mathematical Sciences Courses

MATH 108 and MATH 111 are both entry-level calculus courses. The distinction between the two is that MATH 111 is a 4-credit course that includes trigonometry (generally needed by the science student) and prepares students for subsequent courses in mathematics. MATH 108 is a 3-credit course that emphasizes applications of calculus in science and industry, without discussion of trigonometric functions.

STAT 269 is an introductory statistics course, with a prerequisite of two years of high school algebra. Students who have taken a course in calculus should consider STAT 291 instead, a calculus-based statistics course that counts toward the Statistics minor.

Chemistry, Chemistry with Teaching Certification and Biochemistry Majors:

These majors require MATH 111, which should be taken in the first year. Each of these majors has additional mathematical sciences requirements, generally taken in the second semester, or perhaps in the second year.

Students with Advanced Placement credit:

Requirements in General Chemistry can be met through Advanced Placement exam credit. See the Registrar's AP credit page for further information.

https://www.messiah.edu/info/22478/transfer_ap_clep_courses/2107/apclepib_equivalencies/2

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should go to the math department's website (www.messiah.edu/departments/mathsci/courses/ap_credit.html) to find out how credit is awarded for your scores.

Suggested Four-Year Programs of Study Biochemistry (B.A.) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created/Called for Community*	3
CHEM 105	General Chemistry	4	MATH 111/103	Calculus I and Supplemental Calculus	4-5
PHIL 101/102	Philosophy*	3	CHEM 106	General Chemistry II	4
BIOL 170	Cell and Animal Physiology	4	Varies	1 st Language*	3
			COMM 105	Introduction to Oral Communication*	3
		TOTAL			TOTAL
		14			17-18
Sophomore – Fall			Sophomore – Spring		
CHEM 309	Organic Chemistry I	4	Varies	3 rd language or Cross Cultural*	3
CHEM 221	Chemical Analysis I***	4	PHYS 211	General Physics I (optional)	4
BIOL 260	Genetics (science elective)	4	CHEM 310	Organic Chemistry II	4
Varies	2 nd Language*	3	STAT 269 or MATH 112	Introductory Statistics OR Calculus II (4)	3-4
			WELL 1xx	Wellness *	1
		TOTAL			TOTAL
		15			15-16
Junior – Fall			Junior – Spring		
CHEM 410	Biochemistry I	4	CHEM 409	Advanced Organic Chemistry**	3
PHYS 212/201	General Physics II or Intro to Physics I	4	PHYS 202	Introduction to Physics II (optional)	4
ENGL xxx	Literature*	3	Varies	1 st History/Social Science*	3
BIBL 20x	Knowledge of the Bible*	3	CHEM 412	Biochemistry II**	4
Varies	Elective	3	CHEM 390	Junior Chemistry Seminar	1
			SCIE 393	Research Methods (optional)	1
		TOTAL			TOTAL
		17			16
Senior – Fall			Senior – Spring		
Varies	Science Elective	3-4	SCIE 495	Natural Sciences Capstone	3
CHEM 437	Physical Chemistry I**	3.5	Varies	Art, Theatre, Music or Dance*	3
CHEM 422	Junior/Senior Research (optional)	3	IDS xxx	Ethics/Word Views/Pluralism*	3
IDNW xxx	Non-Western Studies*	2-3	Varies	2 nd History/Social Science*	3
THEO 20x	Christian Beliefs*	3	Varies	Elective	3
CHEM 490	Senior Chemistry Seminar	1			
		TOTAL			TOTAL
		15.5- 17.5			15

*QuEST requirement

**Interchangeable between Junior and Senior years.

***Interchangeable between Sophomore and Junior years

Biochemistry (B.S.) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created/Called for Community*	3
CHEM 105	General Chemistry	4	MATH 112	Calculus II	4
MATH 111/103	Calculus I and Supplemental Calculus	4-5	CHEM 106	General Chemistry II	4
BIOL 170	Cell and Animal Physiology	4	Varies	1 st Language*	3
			COMM 105	Introduction to Oral Communication*	3
		TOTAL			TOTAL
		15-16			17
Sophomore – Fall			Sophomore – Spring		
CHEM 309	Organic Chemistry I	4	Varies	3 rd language or Cross Cultural*	3
CHEM 221	Chemical Analysis I***	4	PHYS 211	General Physics I	4
BIOL 260	Genetics	4	CHEM 310	Organic Chemistry II	4
WELL 1xx	Wellness Activity Course*	1	BIBL 20x	Knowledge of the Bible*	3
Varies	2 nd Language*	3	PHIL101/102	Philosophy*	3
		TOTAL			TOTAL
		16			17
Junior – Fall			Junior – Spring		
CHEM 410	Biochemistry I	4	CHEM 321	Chemical Analysis II**	4
PHYS 212	General Physics II	4	Varies	1 st History/Social Science*	3
ENGL xxx	Literature*	3	CHEM 412	Biochemistry II**	4
THEO 20x	Christian Beliefs *	3	SCIE 393	Research Methods (optional)	1
Varies	Elective	3	CHEM 390	Junior Chemistry Seminar	1
				Elective	3
		TOTAL			TOTAL
		17			16
Senior – Fall			Senior – Spring		
BIOL xxx	Advanced Biology Elective**	4	BIOL xxx	Recommended biology course (optional)	4
CHEM 437	Physical Chemistry I**	3.5	SCIE 495	Natural Sciences Capstone	3
CHEM 422	Junior/Senior Research (optional)	2	Varies	Art, Theatre, Music or Dance*	3
IDSW xxx	Non-Western Studies*	2-3	Varies	2 nd History/Social Science*	3
CHEM 490	Senior Chemistry Seminar	1	CHEM 422	Junior/Senior Research (optional)	1
IDS xxx	Ethics/World Views/Pluralism*	3			
		TOTAL			TOTAL
		15.5- 16.5			14

*QuEST requirement

**Interchangeable between Junior and Senior years.

***Interchangeable between Sophomore and Junior years

Biochemistry (B.S.) ACS Certified 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created/Called for Community*	3
CHEM 105	General Chemistry	4	MATH 112	Calculus II	4
MATH 111/103	Calculus I and Supplemental Calculus	4-5	CHEM 106	General Chemistry II	4
BIOL 170	Cell and Animal Physiology	4	Varies	1 st Language*	3
			COMM 105	Introduction to Oral Communication*	3
		TOTAL			TOTAL
		15-16			17
Sophomore – Fall			Sophomore – Spring		
CHEM 309	Organic Chemistry I	4	Varies	3 rd language or Cross Cultural*	3
CHEM 221	Chemical Analysis I***	4	PHYS 211	General Physics I	4
BIOL 260	Genetics	4	CHEM 310	Organic Chemistry II	4
WELL 1xx	Wellness Activity Course*	1	BIBL 20x	Knowledge of the Bible*	3
Varies	2 nd Language*	3	PHIL 101/102	Philosophy*	3
		TOTAL			TOTAL
		16			17
Junior – Fall			Junior – Spring		
CHEM 410	Biochemistry I	4	CHEM 321	Chemical Analysis II**	4
Varies	1 st History/Social Science*	3	Varies	2 nd History/Social Science*	3
PHYS 212	General Physics II	4	CHEM 412	Biochemistry II**	4
ENGL xxx	Literature*	3	CHEM 361	Inorganic Chemistry**	4
THEO 20x	Christian Beliefs *	3	SCIE 393	Research Methods	1
			CHEM 390	Junior Chemistry Seminar	1
		TOTAL			TOTAL
		17			17
Senior – Fall			Senior – Spring		
BIOL xxx	Advanced Biology Elective**	4	CHEM xxx	Advanced Chemistry Elective**	3-3.5
CHEM 437	Physical Chemistry I**	3.5	SCIE 495	Natural Sciences Capstone	3
CHEM 422	Junior/Senior Research	2	Varies	Art, Theatre, Music or Dance*	3
IDSW xxx	Non-Western Studies*	2-3	CHEM 422	Junior/Senior Research	1
CHEM 490	Senior Chemistry Seminar	1	IDS xxx	Ethics/World Views/Pluralism*	3
Varies	Elective	3	BIOL xxx	Recommended biology course (optional)	
		TOTAL			TOTAL
		15.5- 16.5			13 – 13.5

*QuEST requirement

**Interchangeable between Junior and Senior years

***Interchangeable between Sophomore and Junior years

Chemistry (B.A) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
CHEM 105	General Chemistry I	4	CHEM 106	General Chemistry II	4
MATH 111/103	Calculus I and Supplemental Calculus	4-5	MATH 112	Calculus II	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	1 st Language*	3	COMM 105	Oral Communications*	3
			Varies	2 nd Language*	3
		TOTAL			TOTAL
		14-15			17
Sophomore – Fall			Sophomore – Spring		
CHEM 309	Organic Chemistry I	4	CHEM 310	Organic Chemistry II	4
CHEM 221	Chemical Analysis I	4	PHYS 211	General Physics I	4
Varies	1 st History/Social Science*	3	Varies	3 rd Language / Cross Cultural*	3
BIBL 2xx	Knowledge of the Bible*	3	Varies	2 nd History/Social Science*	3
Varies	Elective	3			
		TOTAL			TOTAL
		15			14
Junior – Fall			Junior – Spring		
CHEM 437	Physical Chemistry I	3.5	CHEM 3xx	Chemistry Elective**	3-4
PHYS 212	General Physics II	4	SCIE 393	Research Methods (optional)	1
PHIL 101/102	Philosophy*	3	CHEM 390	Junior Chemistry Seminar	1
Varies	Elective	3	ENGL xxx	Literature*	3
THEO 2xx	Christian Beliefs*	3	IDSW xxx	Non-Western Studies*	2-3
			Varies	Electives	6
		TOTAL			TOTAL
		16.5			16-18
Senior – Fall			Senior – Spring		
CHEM 3xx	Chemistry Elective**	4	CHEM 3xx	Chemistry Elective**	3-4
CHEM 422	Junior/Senior Research (optional)	3	SCIE 495	Natural Sciences Capstone	3
CHEM 490	Senior Chemistry Seminar	1	IDS xxx	Ethics/World Views/Pluralism*	3
Varies	Elective	3	Varies	Electives	6
Varies	Art, Theatre, Music or Dance*	3			
WELL 1xx	Wellness Activity Course*	1			
		TOTAL			TOTAL
		15			15-16

*QuEST requirement

**Interchangeable between Junior and Senior years

Chemistry (B.S.) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
CHEM 105	General Chemistry I	4	CHEM 106	General Chemistry II	4
MATH 111/103	Calculus I and Supplemental Calculus	4-5	MATH 112	Calculus II	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	1 st Language*	3	COMM 105	Oral Communications*	3
			Varies	2 nd Language*	3
TOTAL		14-15	TOTAL		17
Sophomore – Fall			Sophomore – Spring		
CHEM 309	Organic Chemistry I	4	CHEM 310	Organic Chemistry II	4
CHEM 221	Chemical Analysis I	4	PHYS 211	General Physics I	4
Varies	1 st History/Social Science*	3	MATH 2xx	Linear and Differential Methods or Calculus III	3-4
BIBL 2xx	Encountering the Bible OT/NT*	3	Varies	3 rd Language / Cross Cultural*	3
Varies	Elective	3	Varies	Elective	3
TOTAL		17	TOTAL		17-18
Junior – Fall			Junior – Spring		
CHEM 437	Physical Chemistry I**	3.5	CHEM 438	Physical Chemistry II**	3.5
PHYS 212	General Physics II	4	CHEM 390	Junior Chemistry Seminar	1
PHIL 101/102	Philosophy*	3	CHEM 321	Chemistry Analysis II**	4
Varies	2 nd History/Social Science*	3	CHEM 361	Inorganic Chemistry**	4
SCIE 393	Research Methods (optional)	1	IDSW xxx	Non-Western Studies*	2-3
TOTAL		14.5	TOTAL		14.5-15.5
Senior – Fall			Senior – Spring		
CHEM 410	Biochemistry I or Elective**	4	CHEM 342	Advanced Synthesis Lab**	3
CHEM 422	Junior/Senior Research (optional)	3	SCIE 495	Natural Sciences Capstone	3
CHEM 490	Senior Chemistry Seminar	1	IDS xxx	Ethics/World View/Pluralism*	3
THEO 2xx	Christian Beliefs*	3	ENGL xxx	Literature*	3
Varies	Art, Theatre, Music or Dance*	3	Varies	Elective	3
WELL 1xx	Wellness Activity Course*	1			
TOTAL		15	TOTAL		15

*QuEST requirement

**Interchangeable between Junior and Senior years

**Chemistry (B.S.) ACS Certified
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
CHEM 105	General Chemistry I	4	CHEM 106	General Chemistry II	4
MATH 111/103	Calculus I and Supplemental Calculus	4-5	MATH 112	Calculus II	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	1 st Language*	3	COMM 105	Oral Communications*	3
			Varies	2 nd Language*	3
		TOTAL			TOTAL
		14-15			17
Sophomore – Fall			Sophomore – Spring		
CHEM 309	Organic Chemistry I	4	CHEM 310	Organic Chemistry II	4
CHEM 221	Chemical Analysis I	4	PHYS 211	General Physics I	4
Varies	1 st History/Social Science*	3	MATH 2xx	Linear and Differential Methods or Calculus III	3-4
BIBL 2xx	Encountering the Bible OT/NT*	3	WELL 1xx	Wellness Activity Course*	1
PHIL 101/102	Philosophy*	3	Varies	3 rd Language / Cross Cultural*	3
		TOTAL			TOTAL
		17			15-16
Junior – Fall			Junior – Spring		
CHEM 437	Physical Chemistry I**	3.5	CHEM 438	Physical Chemistry II**	3.5
PHYS 212	General Physics II	4	CHEM 390	Junior Chemistry Seminar	1
Varies	Elective	3	CHEM 321	Chemistry Analysis II**	4
Varies	2 nd History/Social Science*	3	CHEM 361	Inorganic Chemistry**	4
SCIE 393	Research Methods	1	IDSW xxx	Non-Western Studies*	2-3
		TOTAL			TOTAL
		14.5			14.5-15.5
Senior – Fall			Senior – Spring		
CHEM 410	Biochemistry I	4	CHEM 342	Advanced Synthesis Lab**	3
CHEM 422	Junior/Senior Research	2	SCIE 495	Natural Sciences Capstone	3
CHEM 490	Senior Chemistry Seminar	1	IDS xxx	Ethics/World View/Pluralism*	3
THEO 2xx	Christian Beliefs*	3	Varies	Art, Theatre, Music or Dance*	3
Varies	Art, Theatre, Music or Dance*	3	CHEM 422	Junior/Senior Research	1
			Varies	Elective	3
		TOTAL			TOTAL
		13			16

*QuEST requirement

**Interchangeable between Junior and Senior years

Chemistry (B.A.) with Teaching Certification 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
CHEM 105 ^a	General Chemistry I	4	CHEM 106	General Chemistry II	4
MATH 111/103	Calculus I and Supplemental Calculus ^a	4-5	MATH 112	Calculus II ^a	4
COMM 105	Oral Communication ^a	3	ENGL122-176a	Literature ^a	3
IDFY 101	First Year Seminar ^a	3	Varies	2nd Language [*]	3
Varies	1 st Language [*]	3	IDCR 151	Created and Called for Community [*]	3
TOTAL		17-18	TOTAL		17
Sophomore – Fall			Sophomore – Spring		
CHEM 221	Chemical Analysis I	4	CHEM 310	Organic Chemistry II	4
CHEM 309	Organic Chemistry I	4	PHYS 211	General Physics I	4
PHIL 101/102	Philosophy [*]	3	EDSP 207 ^c	Intro to Special Ed	3
GEOG 201	Foundations of Geology	4	EDUC 203 ^c	Educational Psychology	3
BIBL 2xx	Encountering the Bible [*]	3	TEP 210 ^c	Soph. Field Experience	0
			Varies	3 rd language or Cross Cultural	3
TOTAL		18	TOTAL		17
Junior – Fall			Junior – Spring		
CHEM 437	Physical Chemistry I ^{**}	3.5	CHEM xxx	Chemistry Elective	3-4
EDUC 346	Sociocultural Perspectives on Education	3	CHEM 390	Junior Chemistry Seminar	1
PHYS 212	General Physics II	4	WELL 1xx	Wellness Activity Course [*]	1
CHEM xxx	Chemistry Elective	4	EDUC 331 ^c	Instructional Design/ Assessment	3
HDFS 311	Adolescent Development	3	EDSP 307 ^c	Inclusion Practices	3
			TEP 310 ^c	Junior Field Experience	0
			Varies	1 st History/Social Science [*]	3
			SCIE 407	Teaching Lab Sciences	1
TOTAL		17.5	TOTAL		15-16
Senior – Fall			Senior – Spring		
CHEM xxx	Chemistry Elective	4	Professional Semester		
SCIE 495	Natural Sciences Capstone	3	TEP 435 ^c	Student Teaching	9
THEO 223	Global Christian Theology [*]	3	EDUC 420 ^c	Professional Issues in Education	2
Varies	Art, Theatre, Music or Dance [*]	3	TEP 407 ^c	Student Teaching Seminar	1
EDUC 208	ELL Instruction	3	TEP 410 ^c	Secondary Pre-student teaching	0
TOTAL		16	TOTAL		12

*QuEST requirement

**Interchangeable between Junior and Senior years

*QuEST Requirement

**Interchangeable between Junior and Senior years

^a Indicates requirement for admission to the TEP.

^c Indicates courses to be taken concurrently.

III. Computing, Mathematics, and Physics

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Students with Advanced Placement credit:

Requirements for the following courses can be met through Advanced Placement exam credit. The College awards the following credit for AP scores:

AP Subject	AP Exam Score	Hrs Credit	Messiah University Courses Credited
Computer Science A	3,4,5	3	CIS 181
Math: Calculus AB	3	3	MATH 108
	4, 5	4	MATH 111 (enroll in 112)
Math: Calculus BC	3 with AB subscore 3	3	MATH 108
	3 with AB subscore 4,5	4	MATH 111 (enroll in 112)
	4,5	8	MATH 111, 112 (enroll in 211)
Physics 1	3, 4, 5	4	PHYS 201* (enroll in 202)
Physics 2	3, 4, 5	4	PHYS 202*
Physics C: Mechanics	3,4,5	4	PHYS 211 (enroll in PHYS 212)
Physics C: Electricity & Magnetism	3,4,5	4	PHYS 212
Statistics	3,4,5	3	STAT 269 (enroll in STAT 291)** or STAT 281

* Mathematics majors are required to take the PHYS 211/212 sequence rather than PHYS 201/202. However, if a student in the mathematics major receives AP credit for both PHYS 201 and 202, the 211/212 requirements are waived.

** AP Statistics is not a calculus-based course or exam. Mathematics majors who receive AP credit for Statistics are still required to take STAT 291 for the major requirement.

Suggested 8-Semester Plans of Study:

The following pages give suggested 8-semester plans of study for the majors on the department, assuming students have no AP or transfer credits. Please note:

- Majors courses:
 - Many courses in the majors have pre-requisites, and must therefore be taken in a certain order. Therefore, be careful if deviating from these plans.
 - Some course are only offered alternating semesters or alternating years, as indicated in the plans, so plan accordingly.

Actuarial Science (B.S.)

8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
COMM 105	Fundamentals of Oral Communication (QuEST)	3	IDCR 151	Created and Called for Community (QuEST)	3
MATH 111	Calculus I with lab	4	MATH 112	Calculus II with lab	4
MATH 196*	Mathematics Seminar	2	MATH 198**	Introduction to Proof	2
IDFY 101	First Year Seminar (QuEST)	3	ACCT 131	Survey of Accounting	3
Varies	1 st semester of language (QuEST)	3	Varies	2 nd semester of language (QuEST)	3
WELL 1xx	Wellness (QuEST)	1	ECON 120	Macroeconomics	3
TOTAL		16	TOTAL		18
Sophomore – Fall			Sophomore – Spring		
MATH 211	Calculus III with lab	4	MATH 261**	Linear Algebra	3
STAT 291*	Probability and Statistics	3	Varies	3 rd semester of language or cross-cultural (QuEST)	3
ENGL 1xx	Literature (QuEST)	3	Varies	Philosophy or Religion (QuEST)	3
ECON 220	Microeconomics	3	STAT 292**	Inferential Statistics	3
BIBL 201/203/204	Knowledge of the Bible (QuEST)	3	CIS 181	Computer Programming I	3
TOTAL		16	TOTAL		15
Junior – Fall			Junior – Spring		
MATH 350* OR STAT 417*	Mathematics of Finance (even falls) OR Mathematical Statistics (odd falls)	3	MATH 412** or STAT 324**	Real Analysis (every spring) or Advanced Statistical Methods (even springs)	3
FINA 305	Financial Management	3	INTE 391	Internship	3
Varies	US/European History (QuEST)	3	PHYS 211	General Physics I with lab	4
Varies	Free Elective	3	THEO 205- 238	Christian Beliefs (QuEST)	3
Varies	Free Elective	3	Varies	Free Elective	3
TOTAL		15	TOTAL		16
Senior – Fall			Senior – Spring		
MATH 350* or STAT 417*	Mathematics of Finance (even falls) or Mathematical Statistics (odd falls)	3	MATH 412** or STAT 324**	Real Analysis (every spring) or Advanced Statistical Methods (even springs)	3
IDNW 2xx	Non-western Studies (QuEST)	3	MATH 496**	Mathematics Capstone	2
FINA 307/351/405	Upper-Level Finance Elective	3	Varies	Ethics/WV/Pluralism (QuEST)	3
Varies	Free Elective	3	Varies	Art, Music, Theater or Dance (QuEST)	3
			Varies	Free Elective	3
TOTAL		12	TOTAL		14

* Fall-only courses

** Spring-only courses

NOTE: The major includes 13-14 free elective credits. Students should consider a minor in a related area to make best use of the elective credits and additional space in this plan. Minors require at least 18 credits (12 must be unique credits that are not required for major).

Computer and Information Science (B.S.) Computer Science Concentration

8-semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
CIS 180	Introduction to CIS	3	CIS 284	Computer Programming II	3
CIS 181	Computer Programming I	3	IDCR 151	Created and Called for Community (QuEST)	3
IDFY 101	First Year Seminar (QuEST)	3	COMM 105	Fundamentals of Oral Communication (QuEST)	3
Varies	1 st language requirement (QuEST)	3	Varies	2 nd language requirement (QuEST)	3
Varies	Philosophy and Religion (QuEST)	3	Varies	Social Science / History 1 of 2 (QuEST)	3
TOTAL		15	TOTAL		15
Sophomore – Fall			Sophomore – Spring		
CIS 281*	Programming for User Interaction	3	MATH 180**	Discrete Math	3
CIS 332*	Database Concepts	3	CIS 381	Information Systems and Managers	3
MATH 111	Calculus I	3	PHYS 202**	Introductory Physics II §	3
Varies	3 rd semester of language or cross-cultural (QuEST)	3	Varies	Social Science / History 2 of 2 (QuEST)	3
BIBL 20x	Knowledge of the Bible (QuEST)	3	THEO 2xx	Christian Beliefs (QuEST)	3
WELL xxx	Wellness (QuEST)	1			
TOTAL		16	TOTAL		15
Junior – Fall			Junior – Spring		
CIS 385*	Data Structures & Algorithm	3	CIS 411**	Systems Analysis and Design Concepts	3
CIS 384* or elective	Elements of Computer Systems (even falls) or free elective	3	CIS 416** or CIS xxx	OS & Comp Architecture (odd spring) or CIS elective	3
STAT 291*	Probability and Statistics §	3	CIS 482 or elective	Organization of Programming Languages (odd springs) or free elective	
Varies	Free Elective	3	Varies	Free Elective	3
ENGL xxx	Literature (QuEST)	3	IDNW xxx	Non-Western Studies (QuEST)	3
TOTAL		15	TOTAL		14-15
Senior – Fall			Senior – Spring		
CIS 384* or elective	Elements of Computer Systems (even falls) or free elective	3	CIS 416** or CIS xxx	OS & Computer Architecture (odd springs) or CIS elective	3
CIS 471*	Application Development I	3	CIS 472**	Application Development II	3
INTE 394	Internship	4	CIS 482** or CIS xxx	Organization of Programming Languages (odd spring) or CIS elective	3
Varies	Art, Music, Theater or Dance (QuEST)	3	IDS xxx	Ethics / Pluralism / World Views (QuEST)	3
Varies	Free Elective	3	Varies	Free Elective	3
TOTAL		16	TOTAL		15

*Fall-only courses

**Spring-only courses

§ Concentration choice option: other courses in other semesters may fulfill this same requirement

† 3 credits from CIS 315, 335, 415, 418 or 487 fulfill concentration requirements

Computer and Information Science (B.S.) Software Development Concentration
8-semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
CIS 180	Introduction to CIS	3	CIS 191**	Web Development I: Client Side	3
CIS 181	Computer Programming I	3	CIS 284	Computer Programming II	3
IDFY 101	First Year Seminar (QuEST)	3	IDCR 151	Created and Called for Community (QuEST)	3
Varies	1 st language requirement (QuEST)	3	COMM 105	Fundamentals of Oral Communication (QuEST)	3
Varies	Social Science / History 1 of 2 (QuEST)	3	Varies	2 nd language requirement (QuEST)	3
		TOTAL	15		
Sophomore – Fall			Sophomore – Spring		
CIS 281*	Programming for User Interaction	3	CIS 283	Business Systems Applications	3
CIS 291*	Web Development II: Server Side	3	MATH 180**	Discrete Math	3
CIS 251* or CIS 255* or CIS 384	Hardware and Software or NIX System Admin & Security or Hardware and Software	3	MATH 111 or STAT 269 or STAT 281	Calculus I or Introductory Statistics or Applied Statistics for Management	3-4
Varies	3 rd semester of language or cross-cultural (QuEST)	3	Varies	Lab Science (QuEST)	3
WELL xxx	Wellness (QuEST)	1	PHIL/RELI xxx	Philosophy or Religion (QuEST)	3
		TOTAL	16		
Junior – Fall			Junior – Spring		
CIS 332*	Database Concepts	3	CIS 411**	Systems Analysis and Design Concepts	3
CIS 381	Information Systems & Managers	3	CIS 335** or CIS 482**	Software Engineering or Organization of Programming Languages	3
CIS xxx	CIS Elective 1 of 2 [†]	3	Varies	Social Science / History 2 of 2 (QuEST)	3
ENGL xxx	Literature (QuEST)	3	THEO 2xx	Christian Beliefs (QuEST)	3
Varies	Free Elective	3	Varies	Art, Music, Theater or Dance (QuEST)	3
		TOTAL	15		
Senior – Fall			Senior – Spring		
INTE 394	Internship	4	CIS 335** or CIS 482**	Software Engineering or Organization of Programming Languages	3
CIS 385*	Data Structures and Algorithms	3	CIS 472**	Application Development II	3
CIS 471*	Application Development I	3	CIS xxx	CIS elective 2 of 2 [†]	3
IDNW xxx	Non-Western Studies (QuEST)	2-3	IDS xxx	Ethics / Pluralism / World Views (QuEST)	3
BIBL 20x	Knowledge of the Bible (QuEST)	3	Varies	Free Elective	3
		TOTAL	15-16		
TOTAL			TOTAL		
15			15		

*Fall-only courses

**Spring-only courses

† 6 credits from CIS 315, 415, 416, 418, 482 or 487 fulfill concentration requirements

Computer and Information Science (B.S.) Web Development Concentration

8-semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
CIS 180	Introduction to CIS	3	CIS 150 [†] or ACCT 141 [†]	Introduction to Cybersecurity or Financial Accounting	3
CIS 181	Computer Programming I	3	CIS 191**	Web Development I: Client Side	3
IDFY 101	First Year Seminar (QuEST)	3	IDCR 151	Created and Called for Community (QuEST)	3
Varies	1 st language requirement (QuEST)	3	COMM 105	Fundamentals of Oral Communication (QuEST)	3
Varies	Social Science / History 1 of 2 (QuEST)	3	Varies	2 nd language requirement (QuEST)	3
TOTAL		15	TOTAL		15
Sophomore – Fall			Sophomore – Spring		
CIS 281*	Programming for User Interaction	3	CIS 257 [†] or elective	Information Assurance (even springs) OR free elective	3
CIS 291*	Web Development II: Server Side	3	CIS 283** or CIS 284 or CIS 287**	Business Systems Applications or Computer Programming II or Introduction to Game Design	3
BUSA 120	Principles of Management	3	MRKT 130	Marketing Principles	3
Varies	3 rd semester of language or cross-cultural (QuEST)	3	Varies	Social Science / History 2 of 2 (QuEST)	3
BIBL 20x	Knowledge of the Bible (QuEST)	3	Varies	Lab Science (QuEST)	3-4
WELL xxx	Wellness (QuEST)	1			
TOTAL		16	TOTAL		15-16
Junior – Fall			Junior – Spring		
CIS 255*	System Administration and Security	3	CIS 257 [†] or elective	Information Assurance (Even Springs or elective)	3
CIS 332*	Database Concepts	3	CIS 343** or CIS 381	E-Commerce (odd springs) OR Information Systems and Managers	3
Varies [^]	Choice Block (ART/ARTH/COMM)	3	CIS 411**	Systems Analysis and Design Concepts	3
BUSA 380 [†] or elective	Small Business Development or free elective	3	ENGL xxx	Literature (QuEST)	3
PHIL/RELI	Philosophy or Religion (QuEST)	3	THEO 2xx	Christian Beliefs (QuEST)	3
TOTAL		5	TOTAL		15
Senior – Fall			Senior – Spring		
CIS 471	Application Development I*	3	CIS 343** or CIS 381	E-Commerce (odd springs) OR Information Systems and Managers	3
Varies [^]	Choice Block (ART/ARTH/COMM)	3	CIS 472**	Application Development II	3
INTE 394	Internship	4	IDS xxx	Ethics / Pluralism / World Views (QuEST)	3
Varies	Free elective	3	Varies	Free elective	3
IDNW xxx	Non-Western Studies (QuEST)	2-3	Varies	Free elective	3
TOTAL		5-6	TOTAL		14-15

*Fall-only courses

**Spring-only courses

§ 3 credits from CIS 283, 284, or 287 fulfill concentration requirements

†6 credits of concentration electives. Option 1: CIS 150 and CIS 257, Option 2: ACCT 141 and BUSA 380,

[^]6 credits from ART 217, ARTH 205, COMM 207, COMM 337 or COMM 382 fulfill concentration requirements.

Computer Science with Teaching Certification (B.A.) 8-Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
CIS 180	Intro to CIS	3	CIS 150	Intro to Cybersecurity	3
CIS 181	Programming I	3	CIS 284	Computer Programming II	3
FYS 101 [^]	First Year Seminar (QuEST/major)	3	IDCR 151	Created and Called for Community (QuEST)	3
COMM 105 [^]	Fundamentals of Oral Communication (QuEST/major)	3	CIS 191	Web Development: Client Side	3
Varies	1 st semester of language (QuEST)	3	WELL 1XX	Wellness (QuEST)	1
			Varies	2 nd semester of language (QuEST)	3
			<i>Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31.</i>		
TOTAL		15	TOTAL		16
Sophomore –Fall			Sophomore – Spring		
CIS 291*	Web Development: Server Side	3	CIS 283**	Business Systems Applications	3
CIS 251* or CIS 384*	Hardware and Software (odd Falls) or Elements of Computer Systems	3	MATH 180**	Discrete Mathematics	3
CIS 385 or CIS 415*	Data Structures and Algorithms or Data Communications&Networking (even Falls)	3	EDUC 208	Teaching English Language Learners	3
STAT 269	Introductory Statistics	3	EDSP 207 [§]	Introduction to Special Education	3
BIBL 2xx	Knowledge of the Bible (QuEST)	3	TEP 210 [§]	Sophomore Field Experience	0
Varies	3 rd semester of language (QuEST)	3	EDUC 203 [§]	Educational Psychology	3
			ENGL 122-176 [^]	Literature (QuEST/major)	3
			<i>Submit Teacher Education Program application electronically by 3/31. Clearances completed last year must be <1 year old.</i>		
TOTAL		18	TOTAL		18
Junior – Fall			Junior – Spring		
CIS 332*	Database Concepts	3	CIS 381	Information Systems and Managers	3
CIS 251* or CIS 384*	Hardware & Software (odd Falls) or Elements of Computer Syst (even Falls)	3	Varies	Art, Music, Theater or Dance (QuEST)	3
CIS 385 or CIS 415*	Data Structures and Algorithms or Data Communications&Networking (even Falls)	3	MATH 307**	Teaching Secondary Math & Comp.Science	2
EDUC 346	Socio-Cultural Perspectives on Education	3	EDUC 331 ^{§§}	Instruct. Design & Assessment	3
HDFS 311	Adolescent Development	3	EDSP 307 ^{§§}	Inclusion Practices	3
			TEP 310 ^{§§}	Junior Field Experience	0
			Varies	Lab Science (QuEST)	3-4
			<i>Submit Professional Semester application electronically by 1/15.</i>		
TOTAL		18	TOTAL		17-18
Senior – Fall			Senior – Spring		
	<i>Professional Semester</i>		CIS 411**	Systems Analysis & Design Concepts	3
TEP 407 ^{§§§}	Student Teaching Seminar	1	Varies	Philosophy or Religion	3
TEP 410 ^{§§§}	Pre-student Teaching	0	IDNW 2XX	Non-western Studies (QuEST)	2-3
TEP 435 ^{§§§}	Student Teaching	9	THEO 205-238	Christian Beliefs (QuEST)	3
EDUC 420 ^{§§§}	Professional Issues in Education	2	Varies	History (QuEST)	3
			<i>Take Praxis II Computer Science exam (5651)</i>		
TOTAL		12	TOTAL		14-15

* Fall-only courses, ** Spring-only courses

[^]Course must be completed prior to applying for the teacher education program. Admission to the TEP is required for junior level field experience and related courses.

[§] EDSP 207, TEP 210, EDUC 203 must be taken concurrently.

^{§§} EDUC 331, EDSP 307, TEP 310 must be taken concurrently.

^{§§§} TEP 407, TEP 410, TEP 435, EDUC 420 must be taken concurrently. No other course may be taken during the professional semester.

Cybersecurity (B.S.) (Odd fall start)
8 Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall (Odd)			First Year – Spring (Even)		
CIS 150	Introduction to Cybersecurity	3	CIS 284	Programming II	3
CIS 181	Programming I	3	COMM 105	Fundamentals of Oral Communication (QuEST)	3
IDFY 101	First Year Seminar (QuEST)	3	IDCR 151	Created and Called for Community (QuEST)	3
Varies	1 st Language (QuEST)	3	Varies	2 nd Language (QuEST)	3
Varies	Social Science / History 1 of 2 (QuEST)	3	Varies	Philosophy or Religion (QuEST)	3
			WELL 1xx	Wellness (QuEST)	1
		Total			15
					Total
					16
Sophomore – Fall (Even)			Sophomore – Spring (Odd)		
CIS 255*	NIX System Administration & Security	3	MATH 180**	Discrete Math	3
CIS 332*	Database Concepts	3	CIS 335	Software Engineering	3
STAT 2xx	Statistics	3	SOCI/HIST	Social Science / History 1 of 2 (QuEST)	3
Varies	3 rd Language or cross-cultural (QuEST)	3	ENGL xxx	Literature (QuEST)	3
Varies	Art, Music, Theater or Dance (QuEST)	3	BIBL 2xx	Knowledge of the Bible (QuEST)	3
		Total			15
					Total
					15
Junior – Fall (Odd)			Junior – Spring (Even)		
CIS 381	Information Systems and Managers	3	CIS 257**	Information Assurance (even Springs)	3
CIS 484*	Ethical Hacking (odd Falls)	3	CIS 411**	System Analysis & Design Concepts	3
Varies	Lab Science (QuEST)	3-4	CIS 474**	Digital Forensics (even Springs)	3
Varies	Internship† or free elective	2-6	Varies	Ethics/World Views/Pluralism (QuEST)	3
IDNW 2xx	Non-Western Studies (QuEST)	2-3	Varies	Internship† or free elective	2-6
		Total			13-18
					Total
					14-18
Senior – Fall (Even)			Senior – Spring (Odd)		
CIS 385	Data Structures and Algorithms	3	CIS 371**	Database Security (odd Springs)	3
CIS 415*	Data Communications and Networking (even Falls)	3	CIS 455**	Network Security (odd Springs)	3
Varies	Internship† or free elective	2-6	Varies	Social Science / History 2 of 2 (QuEST)	3
Varies	Christian Beliefs (QuEST)	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Internship† or free elective	2-6
		Total			14-18
					Total
					14-18

†4 credits of INTE 391 or INTE 394 can be taken any semester Junior or Senior year

*Fall-only courses

**Spring-only courses

Cybersecurity (B.S.) (Even fall start)
8 Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall (Even)			First Year – Spring (Odd)		
CIS 150	Introduction to Cybersecurity	3	CIS 284	Programming II	3
CIS 181	Programming I	3	COMM 105	Fundamentals of Oral Communication (QuEST)	3
IDFY 101	First Year Seminar (QuEST)	3	IDCR 151	Created and Called for Community (QuEST)	3
Varies	1 st Language (QuEST)	3	Varies	2 nd Language (QuEST)	3
Varies	Social Science / History 1 of 2 (QuEST)	3	Varies	Philosophy or Religion (QuEST)	3
Total		15	Total		15
Sophomore – Fall (Odd)			Sophomore – Spring (Even)		
CIS 255*	NIX System Administration & Security	3	MATH 180**	Discrete Math	3
CIS 332*	Database Concepts	3	CIS 257**	Information Assurance (even Springs)	3
STAT 2xx	Statistics	3	CIS 385	Data Structures and Algorithms	3
Varies	3 rd Language (QuEST)	3	ENGL xxx	Literature (QuEST)	3
Varies	Art, Music, Theater or Dance (QuEST)	3	BIBL 2xx	Knowledge of the Bible (QuEST)	3
			WELL xxx	Wellness (QuEST)	1
Total		15	Total		16
Junior – Fall (Even)			Junior – Spring (Odd)		
CIS 385*	Data Structures & Algorithms	3	CIS 371*	Database Security (odd Springs)	3
CIS 415*	Data Communications and Networking (even Falls)	3	CIS 455**	Network Security (odd Springs)	3
Varies	Lab Science (QuEST)	3-4	IDS xxx	Ethics/Pluralism/World Views (QuEST)	3
Varies	Internship† or free elective	2-6	Varies	Social Science / History 2 of 2 (QuEST)	3
			Varies	Internship† or free elective	2-6
IDNW 2xx	Non-Western Studies (QuEST)	2-3			
Total		13-18	Total		14-18
Senior – Fall (Odd)			Senior – Spring (Even)		
CIS 381	Information Systems and Managers	3	CIS 411**	System Analysis & Design Concepts	3
CIS 484*	Ethical Hacking (odd Falls)	3	CIS 474**	Digital Forensics (even Springs)	3
Varies	Internship† or free elective	2-6	Varies	Internship† or free elective	3-6
Varies	Christian Beliefs (QuEST)	3	Varies	Free Elective	3
Varies	Free Elective	3			
Total		14-18	Total		12-15

† 4 credits of INTE 391 or INTE 394 can be taken any semester Junior or Senior year

*Fall-only courses

**Spring-only courses

Digital Media (B.A.) Mobile Application and Game Design Concentration
8-semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
CIS 180	Introduction to CIS	3	DIGM 105**	Foundations in Creative Digital Media	
CIS 181	Computer Programming I	3	CIS 284	Computer Programming II	3
COMM 203	Basic Video and Editing Techniques	3	IDCR 151	Created and Called for Community (QuEST)	3
IDFY 101	First Year Seminar (QuEST)	3	DIGM 105**	Foundations in Creative Digital Media	3
Varies	1 st semester of language (QuEST)	3	Varies	2 nd semester of language (QuEST)	3
TOTAL		15	TOTAL		15
Sophomore – Fall			Sophomore – Spring		
ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3	ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3
COMM 217	Introduction to Film	3	ARTH 210** or COMM 321, 327	Topics in NW Art OR Latin American Conema OR Global Indigenous Media	3
CIS 281*	Programming for User Interaction	3	COMM 105	Fundamentals of Oral Communication (QuEST)	3
Varies	3 rd semester of language (QuEST)	3	COMM 382	History and Theory of Digital Media	3
DIGM 210* or DIGM 215*	Video and Church Media Seminar (odd falls) OR Game and Art design Seminar (even falls)	1			
Varies	Social Science/History 1 of 2 (QuEST)	3	BIBL 20x	Knowledge of the Bible (QuEST)	3
			WELL 1xx	Wellness (QuEST)	1
TOTAL		16	TOTAL		16
Junior – Fall			Junior – Spring		
CIS 287* or CIS 291*	Introduction to Game Design (even falls) OR Web Development: Server Side	3	CIS 315** or CIS 381	Intro to Mobile App Design (even falls) OR Information Systems and Managers	3
ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3	MUCM 353**	Sound Design	3
ENGL 1xx	Literature (QuEST)	3	Varies	Laboratory Science (QuEST)	3-4
Varies	Social sciences & History 2 (QuEST)	3	Varies	Philosophy or Religion (QuEST)	3
THEO 2xx	Christian Beliefs (QuEST)	3	Varies	Free Elective	3
DIGM 210* or DIGM 215*	Video and Church Media Seminar (odd falls) or Game and Art design Seminar (even falls)	1			
TOTAL		16	TOTAL		15-16
Senior – Fall			Senior – Spring		
DIGM 490*	Senior Seminar and Project	4	CIS 381	Information Systems and Managers	3
Varies	Digital Media Elective from list	3	Varies	Digital Media Elective from list	3
Varies	Ethics/Pluralism/World Views (QuEST)	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
TOTAL		16	TOTAL		15

*Fall-only courses

**Spring-only courses

†Courses contain a pre-requisite (the pre-requisite counts as DIGM elective)

Mathematics (B.A.)

8-semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
MATH 111	Calculus I with lab	4	MATH 112	Calculus II with lab	4
MATH 196*	Mathematics Seminar	2	MATH 198**	Introduction to Mathematical Proof	2
FYS 101	First Year Seminar (QuEST)	3	PHYS 211	General Physics I with lab	4
COMM 105	Fundamentals of Oral Communication (QuEST)	3	IDCR 151	Created and Called for Community (QuEST)	3
Varies	1 st semester of language (QuEST)	3	Varies	2 nd semester of language (QuEST)	3
TOTAL		15	TOTAL		16
Sophomore – Fall			Sophomore – Spring		
MATH 211	Calculus III with lab	4	MATH 261**	Linear Algebra	3
STAT 291*	Probability & Statistics	3	STAT 292**	Inferential Statistics	3
CIS 181	Computer Programming I	3	ECON 120	Principles of Macroeconomics	3
PHYS 212*	General Physics II with lab	4	Varies	3 rd semester of language or cross-cultural (QuEST)	3
ENGL XXX	Literature (QuEST)	3	Varies	Philosophy or Religion (QuEST)	3
TOTAL		17	WELL 1XX	Wellness (QuEST)	1
TOTAL		17	TOTAL		6
Junior – Fall			Junior – Spring		
MATH 362*	Algebraic Structures	3	MATH 412**	Real Analysis	3
MATH 308*	Differential Equations	3	MATH/STAT 3XX/4XX	Math/Stat Elective (Upper Level)	3
HIST 1xx or 2xx	US/European History (QuEST)	3	THEO 205-238	Christian Beliefs (QuEST)	3
BIBL 201/203/204	Knowledge of the Bible (QuEST)	3	Varies	Art, Music, Theater or Dance (QuEST)	3
Varies	Free Elective	3	Varies	Electives	3
TOTAL		15	TOTAL		15
Senior – Fall			Senior – Spring		
MATH/STAT 3XX/4XX	Math/Stat Elective (Upper Level)	3	MATH/STAT 3XX/4XX	Math/Stat Elective (Upper Level)	3
IDNW 2XX	Non-western Studies (QuEST)	2-3	MATH 496**	Mathematics Capstone	2
Varies	Free Elective	3	Varies	Ethics/WV/Pluralism (QuEST)	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
TOTAL		14-15	TOTAL		15

*Fall-only courses

**Spring-only courses

NOTE: The major includes 20-21 free elective credits. The CMP Department recommends a second major or minor(s) to make best use of the elective credits.

If interested in a Statistics minor, take STAT 291 in fall of first year, if possible (Pre-req: MATH 111).

Mathematics with Secondary Teaching Certification (B.A.)
8-semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
MATH 111 [^]	Calculus I with lab	4	MATH 112 [^]	Calculus II with lab	4
MATH 196*	Mathematics Seminar	2	MATH 198**	Introduction to Proof	2
FYS 101 [^]	First Year Seminar (QuEST/major)	3	IDCR 151	Created and Called for Community (QuEST)	3
COMM 105 [^]	Fundamentals of Oral Communication (QuEST/major)	3	CIS 181	Computer Programming I	3
Varies	1 st semester of language (QuEST)	3	ENGL 122-176 [^]	Literature (QuEST/major)	3
			Varies	2 nd semester of language (QuEST)	3
			<i>Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31.</i>		
TOTAL		15	TOTAL		18
Sophomore –Fall			Sophomore – Spring		
MATH 211	Calculus III with lab	4	MATH 261**	Linear Algebra	3
STAT 291*	Probability & Statistics	3	Varies	3 rd semester of language or cross-cultural (QuEST)	3
EDUC 346	Sociocultural Perspectives on Education	3	PHYS 211	General Physics I with lab	4
EDSP 207 [§]	Introduction to Special Education	3	STAT 292**	Inferential Statistics	3
EDUC 203 [§]	Educational Psychology	3	EDUC 208	Teaching English Language Learners	3
TEP 210 [§]	Sophomore Field Experience	0	<i>Submit Teacher Education Program application electronically by 3/31. Clearances completed last year must be <1 year old.</i>		
TOTAL		16	TOTAL		16
Junior – Fall			Junior – Spring		
MATH 362*	Algebraic Structures	3	MATH 307**	Secondary Math Instruction	2
MATH 308*	Differential Equations	3	MATH 382** or MATH 412**	Geometry (odd Springs) or Real Analysis	3
PHYS 212*	General Physics II with lab	4	EDUC 331 ^{§§}	Instruct. Design & Assessment	3
HIST 1xx or 2xx	US/European History (QuEST)	3	EDSP 307 ^{§§}	Inclusion Practices	3
BIBL 2xx	Knowledge of the Bible (QuEST)	3	TEP 310 ^{§§}	Junior Field Experience	0
WELL 1XX	Wellness (QuEST)	1	HDFS 311	Adolescent Development	3
			Varies	Philosophy or Religion (QuEST)	3
			<i>Submit Professional Semester application electronically by 1/15.</i>		
TOTAL		17	TOTAL		17
Senior – Fall			Senior – Spring		
	<i>Professional Semester</i> ^{§§§}		MATH 382** or MATH 412**	Geometry (odd Springs) or Real Analysis	3
TEP 407 ^{§§§}	Student Teaching Seminar	1	MATH 496**	Mathematics Capstone	2
TEP 410 ^{§§§}	Pre-student Teaching	0	IDNW 2XX	Non-western Studies (QuEST)	2-3
TEP 435 ^{§§§}	Student Teaching	9	THEO 205-238	Christian Beliefs (QuEST)	3
EDUC 420 ^{§§§}	Professional Issues in Education	2	Varies	Art, Music, Theater or Dance (QuEST)	3
			<i>Take Praxis II Mathematics (5161) exam.</i>		
TOTAL		12	TOTAL		13-14

*Fall-only courses, **Spring-only courses

[^]Course must be completed prior to applying for the teacher education program. Admission to the TEP is required for junior level field experience and related courses.

[§] EDSP 207, EDUC 203, TEP 210 must be taken concurrently.

^{§§} EDUC 331, EDSP 307, TEP 310 must be taken concurrently.

^{§§§} TEP 407, TEP 410, TEP 435, EDUC 420 must be taken concurrently. No other course may be taken during the professional semester.

Physics with Teaching Certification (B.A.)

8-semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall -			First Year – Spring –		
MATH 111 [^]	Calculus I	4	MATH 112 [^]	Calculus II	4
CHEM 105	General Chemistry I	4	PHYS 211	General Physics I	4
IDFY 101 [^]	First Year Seminar (QuEST)	3	IDCR 151	Created and Called for Community (QuEST)	3
COMM 105 [^]	Fundamentals of Oral Communication (QuEST)	3	Varies	2 nd semester of language (QuEST)	3
Varies	1 st semester of language (QuEST)	3	ENGL 122-176 [^]	Literature (QuEST)	3
			<i>Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31.</i>		
TOTAL		17	TOTAL		17
Sophomore –Fall -			Sophomore – Spring -		
MATH 211	Calculus III	4	ENGR 212 ^{**}	Programming For Engineers	2
PHYS 212 [*]	General Physics II	4	PHYS 251 ^{**}	Modern Physics	4
EDUC 346	Sociocultural Perspectives on Education	3	MATH 270	Advanced Math for the Sciences	3
PHIL 101 or 102	Philosophy (QuEST)	3	EDSP 207 §	Introduction to Special Education	3
Varies	3 rd semester of language (QuEST)	3	EDUC 203 §	Educational Psychology	3
			TEP 210 §	Sophomore Field Experience	0
			WELL 1xx	Wellness (QuEST)	1
			<i>Submit Teacher Education Program application electronically by 3/31. Clearances completed last year must be <1 year old.</i>		
TOTAL		17	TOTAL		6
Junior – Fall -			Junior – Spring -		
ENGR 367 [*]	Electromagnetics (odd Falls)	3	PHYS 317 ^{**} or QuEST	Optics (even Springs) or Arts (QuEST)	3
ENGR 371	Thermodynamics	3	PHYS 328 ^{**} or PHYS 402 ^{**}	Classical Mechanics (odd Springs) or Quantum Mechanics (even Springs)	3
STAT 291 [*] or ENGR 213	Statistics I or Engineering Statistics	3	SCIE 307 ^{**}	Teaching Lab Sciences in Secondary Education	2
EDUC 331 §§	Instructional Design & Assessment	3	HDFS 311	Adolescent Development	3
EDSP 307 §§	Inclusion Practices	3	HIST 1xx or 2xx	European or US History (QuEST)	3
TEP 310 §§	Junior Field Experience	0	BIBL 201/203/204	Knowledge of the Bible (QuEST)	3
EDUC 208	Teaching English Language Learners	3	<i>Submit Professional Semester application electronically by 1/15.</i>		
TOTAL		18	TOTAL		17
Senior – Fall -			Senior – Spring -		
	<i>Professional Semester****</i>		PHYS 328 ^{**}	Classical Mechanics (odd Springs)	3
TEP 407 §§§	Student Teaching Seminar	1	PHYS 494 ^{**}	Senior Physics Seminar	2
TEP 410 §§§	Pre-student Teaching	0	CHEM 495	Senior Capstone: Natural Sciences	3
TEP 435 §§§	Student Teaching	9	THEO 223	Global Christian Theology (QuEST, both Non-western and Christian Belief)	3
EDUC 420 §§§	Professional Issues in Education	2	PHYS 317 ^{**} or QuEST	Optics (even Springs) or Art/Music/Dance (QuEST)	3
			<i>Take Praxis II exam.</i>		
TOTAL		12	TOTAL		14

* Fall-only courses, ** Spring-only courses ^Course must be completed prior to applying for the teacher education program. Admission to the TEP is required for junior level field experience and related courses.

§ EDSP 207, EDUC 203, TEP 210 must be taken concurrently.

§§ EDUC 331, EDSP 307, TEP 310 must be taken concurrently.

§§§ TEP 407, TEP 410, TEP 435, EDUC 420 must be taken concurrently. No other courses may be taken during the professional semester.

§§§ TEP 407, TEP 410, TEP 435, EDUC 420 must be taken concurrently. No other courses may be taken during the professional semester.

† Talk to your advisor about ENGR 367. A directed study might be needed.

Physics (B.S.)
8-semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall -			First Year – Spring -		
IDFY 101	First Year Seminar (QuEST)	3	IDCR 151	Created and Called for Community (QuEST)	3
Varies	1 st language requirement (QuEST)	3	Varies	2 nd language requirement (QuEST)	3
COMM 105	Fundamentals of Oral Communication (QuEST)	3	Varies	Social Science / History 1 of 2 (QuEST)	3
MATH 111	Calculus I	4	MATH 112	Calculus II	4
CHEM 105	General Chemistry I	4	PHYS 211**	General Physics I	4
Total		17	Total		17
Sophomore – Fall -			Sophomore – Spring -		
Varies	3 rd language requirement (QuEST)	3	ENGL 1xx	Literature (QuEST)	3
BIBL 2xx	Knowledge of the Bible (QuEST)	3	PHIL 101 or 102	Philosophy (QuEST)	3
MATH 308 [^] *	Differential Equations	3	ENGR 212**	Programming For Engineers	3
MATH 211	Calculus III	4	PHYS 251**	Modern Physics	4
PHYS 212*	General Physics II	4	MATH 261 [^] **	Linear Algebra	3
Total		17	Total		16
Junior – Fall -			Junior – Spring -		
Varies	Social Science / History 2 of 2 (QuEST)	3	PHYS 317** or elective	Optics (even Springs) or free elective	3
Varies	Christian Beliefs (QuEST)	3	PHYS 328** or PHYS 402**	Classical Mechanics (odd Springs) or Quantum Mechanics (even Springs)	3
PHYS 421* or PHYS 421*	Particle Physics (even Falls) or Solid State Physics (odd Falls)	3	PHYS 322†	Independent Research (or other Physics elective)	3
ENGR 367* or ENGR 371*	Electromagnetics (odd Falls) or Thermodynamics	3	IDNW 2xx	Non-Western Studies (QuEST)	2-3
STAT 291* or ENGR 213	Probability and Statistics or Engineering Statistics	3	WELL 1xx	Wellness (QuEST)	1
SCIE 393†	Research Methods	1	Varies	Free Elective	3
Total		16	Total		15-16
Senior – Fall -			Senior – Spring -		
PHYS 421* or PHYS 425*	Particle Physics (even Falls) or Solid State Physics (odd Falls)	3	PHYS 328** or PHYS 402**	Classical Mechanics (odd Springs) OR Quantum Mechanics (even Springs)	3
PHYS 422†	Senior Research (or free elective)	3	PHYS 317** or elective	Optics (even Springs) or free elective	2
ENGR 367* or ENGR 371	Electromagnetics (odd Falls) or Thermodynamics	3	PHYS 494	Senior Physics Seminar	3
Varies	Ethics, World View or Pluralism (QuEST)	3	SCIE 495	Capstone Natural Sciences	3
Varies	Free Elective	3	Varies	Art, Music, Theater or Dance (QuEST)	3
Total		15	Total		14

*Fall-only courses

**Spring-only courses

[^]Requirement can alternatively be met in as single semester by MATH 270

†Recommended, but not required for degree (counts as free or physics elective)

Physics (B.A.)
8-semester plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall -			First Year – Spring -		
IDFY 101	First Year Seminar (QuEST)	3	IDCR 151	Created and Called for Community (QuEST)	3
Varies	1 st language requirement (QuEST)	3	Varies	2 nd language requirement (QuEST)	3
COMM 105	Fundamentals of Oral Communication (QuEST)	3	Varies	Social Science / History 1 of 2 (QuEST)	3
MATH 111	Calculus I	4	MATH 112	Calculus II	4
CHEM 105	General Chemistry I	4	PHYS 211	General Physics I	4
		Total			17
Sophomore – Fall -			Sophomore – Spring -		
Varies	3 rd language requirement (QuEST)	3	ENGL 1xx	Literature (QuEST)	3
BIBL 2xx	Knowledge of the Bible (QuEST)	3	PHIL 101 or 102	Philosophy (QuEST)	3
MATH 308 [^] *	Differential Equations	3	ENGR 212**	Programming For Engineers	3
MATH 211	Calculus III	4	PHYS 251**	Modern Physics	4
PHYS 212*	General Physics II	4	MATH 261 [^] **	Linear Algebra	3
			WELL 1xx	Wellness (QuEST)	1
		Total			17
Junior – Fall -			Junior – Spring -		
Varies	Social Science / History 2 of 2 (QuEST)	3	PHYS 317** or elective	Optics (even Springs) or free elective	3
Varies	Christian Beliefs (QuEST)	3	PHYS 328** or PHYS 402**	Classical Mechanics (odd Springs) or Quantum Mechanics (even Springs)	3
ENGR 367* or ENGR 371	Electromagnetics (odd Falls) or Thermodynamics	3	IDNW 2xx	Non-Western Studies (QuEST)	2-3
STAT 291* or ENGR 213	Probability and Statistics or Engineering Statistics	3	Varies	Free Elective	3
		Total			15
Senior – Fall -			Senior – Spring -		
Varies	Ethics, World View or Pluralism (QuEST)	3	PHYS 328** or PHYS 402**	Classical Mechanics (odd Springs) or Quantum Mechanics (even Springs)	3
Varies	Art, Music, Theater or Dance (QuEST)	3	PHYS 494	Senior Physics Seminar	2
ENGR 367* or ENGR 371	Electromagnetics (odd Falls) or Thermodynamics	3	SCIE 495	Capstone Natural Sciences	3
Varies	Free Elective	3	PHYS 317** or elective	Optics (even Springs) or free elective	3
Varies	Free Elective	3	Varies	Free Elective	3
		Total			15
Senior – Spring -			Senior – Spring -		
		Total			14

*Fall-only courses **Spring-only courses

[^]Requirement can alternatively be met in as single semester by MATH 270

III. COMMUNICATION

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Guidelines for Mathematical Sciences Courses

There is no specific math course required for the Communication major. Familiarity with digital technology is increasingly important for students in the humanities with new developments in the digital humanities majors. Students interested in pursuing digital applications in the humanities should consider taking courses in CIS. The introductory CIS courses to consider include:

CIS 171 Problem Solving with Computers focuses on using computers and software to create reports, images, spreadsheets, web pages, and databases.

CIS 180 Introduction to Computer and Information Science covers both technical and social aspects of computing, including privacy, security, reliability, and ethics.

CIS 181 Introduction to Computer Programming in Python is the introductory programming course for both majors and non-majors.

For students interested in math, we recommend students enroll in MATH 101, MATH 102, or MATH 107 in their first year, unless they have had a pre-calculus course; then they should consider MATH 108. Statistical literacy is another important area of mathematical study, and STAT269 is a course that gives a good introduction to statistical methods and meets the QuEST requirement.

Students with Advanced Placement credit:

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should go to the math department's website (www.messiah.edu/departments/mathsci/courses/ap_credit.html) to find out how credit is awarded for your scores.

8-Semester Plans Broadcasting and Journalism (B.A.)

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
COMM 105	Fundamentals of Oral Communication*	3	Varies	1 st QuEST social science/history *	3
Varies	Mathematical Science meeting QuEST*	3-4	Varies	Laboratory Science meeting QuEST*	3-4
COMM 107	Introduction to Communication Seminar	1	Varies	Media Writing menu	3
Varies	Media Writing menu	3			
Total		16-17	Total		15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*	3	ENGL 1xx	Literature meeting QuEST*	3
Varies	2 nd QuEST social science/history *	3	Varies	Philosophy or Religion*	3
BIBL 2xx	Knowledge of the Bible*	3	COMM 243	Audio/Visual News Gathering	3
COMM 207	Communication Design	3	Varies	Communication menu	3
COMM 218	Mass Media and Society	3	Varies	Elective/minor	3
COMM 392 or 492	Student Media Experience Menu	1	COMM 392 or 492	Student Media Experience Menu	1
Total		16	Total		16
Junior – Fall			Junior – Spring		
Varies	Christian Beliefs*	3	WELL 1xx	Wellness*	1
Varies	QuEST Art, Music, Dance, or Theatre*	3	Varies	Non-Western Studies*	3
Varies	Theory menu option	3	Varies	Concentration menu option	3
COMM 365	Media Law and Ethics	3	Varies	Concentration menu option	3
Varies	Elective/minor	3	Varies	Electives/minor	3-6
COMM 392 or 492	Student Media Experience Menu	1			
Total		16	Total		16
Senior – Fall			Senior – Spring		
Varies	Ethics, World View or Pluralism*	3	Varies	Science, Technology & the World*	3
Varies	Concentration menu option	3	INTE 394	Internship	4
Varies	Electives/minor	9-12	Varies	Concentration menu option	3
COMM 493	Communication Senior Seminar	3	Varies	Electives/minor	3-6
Total		15-18	Total		13-16

Note: Internships/practica must be taken for a grade rather than pass/fail, and practicum work must be done outside the department to count toward the requirement.

**Communication (B.A.)
8 semester plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
COMM 105	Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	COMM xxx	Communication elective	3
COMM 107	Introduction to Communication Seminar	1	Varies	Music, Art, Theatre, Dance*	3
PHIL/RELI xxx	Philosophy/Religion*	3	Varies	1 st Social Science, History*	3
Varies	Mathematical Science*	3	Varies	Electives/minor	3
Varies	1 st language*	3			
		TOTAL			16
					TOTAL
					15
Sophomore – Fall			Sophomore – Spring		
COMM xxx	Core writing course (247, 254, 112, 351)	3	COMM xxx	Communication elective	3
COMM xxx	Communication elective	3	Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3
COMM xxx	Core Interpersonal course (241, 313, 342 or 354) or Media course (218)	3	COMM xxx	Core Media course (211, 282, 382) or Interpersonal course	3
Varies	2 nd language* (1 st or 2 nd year)	3	ENGL xxx	Literature* (1 st or 2 nd year)	3
Varies	Electives/minor		Varies	2 nd Social Science, History* (1 st or 2 nd year)	3
		TOTAL			15
					TOTAL
					15
Junior – Fall			Junior – Spring		
COMM xxx	Communication elective	3	COMM 359	Rhetorical Theory	3
COMM 341	Communication Theory	3	COMM xxx	Communication elective	3
BIBL 20x	Knowledge of the Bible* (1 st or 2 nd year)	3	Varies	COMM 391 Practicum or INTE 391 or 394	1-3
WELL 1xx	Wellness* (1 st or 2 nd year)	1	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
Varies	Laboratory Science* (1 st year)	3-4	Varies	Ethics/Pluralism/World Views* (3 rd or 4 th year)	3
Varies	Electives/minor	3	Varies	Elective/minors	
		TOTAL			16-17
					TOTAL
					15-18
Senior – Fall			Senior – Spring		
COMM xxx	Communication elective	3	Varies	Communication elective	3
Varies	COMM 391 Practicum or INTE 391 or 394	1-3	Varies	COMM 391 Practicum or INTE 391 or 394	1-3
COMM 493	Senior Seminar	3	Varies	Electives/minor	6-12
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3			
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3			
Varies	Electives/minor	3			
		TOTAL			15-18
					TOTAL
					15-18

*QuEST requirement

1. Any COMM course taken to fulfill a COMM Core requirement may not simultaneously fulfill a Communication elective requirement.
2. Internships/practica must be taken for a grade rather than pass/fail, and practicum work must be done outside the department to count toward the requirement.

Digital Media (Digital Video and Story concentration) (B.A.)
8 semester plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3	CIS 180/181/191	Introduction to Computer & Info Science or Computer Programming I or Web Development	3
COMM 203	Basic Video and Editing Techniques	3	COMM 326	Digital Production	3
COMM 217	Introduction to Film	3	DIGM 101	Foundations in Creative Digital Media	3
Varies	1 st Language*	3	WELL 1xx	Wellness*	1
			Varies	2 nd Language*	3
TOTAL		15	TOTAL		16
Sophomore – Fall			Sophomore – Spring		
ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3	BIBL 20x	Knowledge of the Bible*	3
COMM 254	Screenwriting I	3	CIS 181/191	Computer Programming I/Web Development	3
DIGM 2xx	DIGM elective	3	COMM 105	Oral Communication*	3
RELI/ PHIL	Religion/Philosophy	3	ENGL xxx	Literature*	3
DIGM 210 or DIGM 215	Video and Church Media Seminar Game and Art Design Seminar	1	Varies	3 rd Lang or Cross Cultural*	3
Varies	1 st Social Science, History*	3	COMM 220	Advanced Cinematography & Lighting Techniques	3
TOTAL		16	TOTAL		15
Junior – Fall			Junior – Spring		
ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3	COMM 317	Advanced Editing and Effects	3
COMM 321/327 or ARTH 210	Latin American Cinema OR Global Indigenous Media OR Topic in NW Art	3	COMM 328	Methods and Issues in Film Studies (3 rd or 4 th year)	3
PHIL/RELI xxx	Philosophy/Religion*	3	COMM 382	History and Theory of Digital Media (odd years only)	(3)
Varies	Laboratory Science*	3-4	ENGL xxx	Literature*	3
Varies	DIGM elective*	3	THEO 2xx	Christian Beliefs*	3
DIGM 210 or DIGM 215	Video and Church Media Seminar Game and Art Design Seminar	1			
TOTAL		16-17	TOTAL		15
Senior – Fall			Senior – Spring		
DIGM 490	Senior Seminar and Project	3	MUCM 353	Sound Design	(3)
COMM 341	Communication Theory	3	COMM 382	History & Theory of Digital Media (odd years only)	(3)
Varies*	DIGM elective	3	COMM 328	Methods and Issues in Film Studies (3 rd or 4 th year)	3
Varies	Elective	3	INTE 3xx	Internship	1-3
Varies	Ethics/Pluralism/World Views	3	Varies	2 nd Social Science, History*	3
TOTAL		15	TOTAL		10^19

*QuEST requirement

**Careful planning required due to scheduled offerings. Students may need to take these courses in different semesters. The QuEST requirement for Science, Technology, and the World is waived for this major.

^Students must take 12 credits to be a full-time student. Dropping below 12 will affect financial aid.

**Film and Media Arts (B.A.)
8 semester plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
COMM 105	Oral Communication*	3	Varies	1 st language*	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	Mathematical Sciences*	3-4	Varies	Art, Music, Theatre, Dance*	3
COMM 217	Introduction to Film	3	Varies	Laboratory Science*	3-4
COMM 203	Basic Video and Editing Techniques	3	ENGL xxx	Literature*	3
COMM 107	Introduction to Communication Seminar	1	COMM 220	Advanced Cinematography & Lighting Techniques (prerequisites COMM 217 and COMM 203 Basic Video & Editing)	3
TOTAL		16	TOTAL		15-16
Sophomore –Fall			Sophomore – Spring		
Varies	2 nd language*	3	Varies	3 rd lang or Cross Cultural*	3
Varies	1 st Social Science, History*	3	Varies	2 nd Social Science, History*	3
Varies	Philosophy/Religion*	3	BIBL 20x	Knowledge of the Bible*	3
COMM 251 or COMM 320	Film History I (2 nd or 3 rd yr; offered odd fall semesters only) OR Advanced Film & Video Production (prerequisites COMM 217 and COMM 203 Basic Video & Editing)	3	COMM 252 or COMM 317	Film History II (2 nd or 3 rd yr; offered even spring semesters only) OR COMM 317 Adv. Editing & Effects	3
COMM 254	Screenwriting I	3	COMM xxx	Core interpersonal requirement (menu) or core media requirement (menu)	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
IDST xxx	Science, Tech & World *	3	THEO 2xx	Christian Beliefs*	3
IDNW xxx	Non-Western Studies*	2-3	Varies	Ethics/Pluralism/World Views* 3-4	3
COMM 251 OR COMM 320	Film History I (2 nd or 3 rd yr; offered odd fall semesters only) Advanced Film & Video Production (prerequisites COMM 217 and COMM 203 Basic Video & Editing)	3	COMM 252 or COMM 317	Film History II (2 nd or 3 rd yr; offered even spring semesters only) OR COMM 317 Adv. Editing & Effects	3
Varies or COMM 420	Film Electives OR Junior/Senior Film Practicum**	1-3	Varies	Film Electives OR Junior/Senior Film Practicum**	1-3
COMM xxx	Core media requirement (menu) or Interpersonal requirement (menu)	3	COMM 328 OR Varies	Methods and Issues in Film Studies (3 rd or 4 th yr) OR Film electives	3
COMM 341	Communication Theory (or COMM 359 in spring)	3	COMM 359	Rhetorical Theory (or COMM 341 in fall)	3
TOTAL		15-18	TOTAL		15-18
Senior – Fall			Senior – Spring		
WELL 1xx	Wellness	1	COMM 328 OR Varies	Methods and Issues in Film Studies (3 rd or 4 th yr) OR Film electives	3
COMM 420	Junior/Senior Film Practicum**	1-3	INTE 391 or 394	Internship	3-6
Varies	Film elective	3	Varies	2 Electives/Film electives	6
COMM 493	Senior Seminar	3	COMM 420	Junior/Senior Film Practicum**	1-3
Varies	1-2 elective courses	3-6			
TOTAL		13-16	TOTAL		13-18

* QuEST requirement

**Three credits should be taken over the course of the Junior and Senior year

Note: Internships/practica must be taken for a grade rather than pass/fail, and practicum work must be done outside the department to count toward the requirement

**Public Relations (B.A.)
8-semester plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
COMM 105	Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	MRKT130	Marketing Principles	3
COMM 107	Intro to Communication Seminar	1	COMM 205	Principles of Strategic Public Relations	3
MATH/CIS/STAT	Mathematical Science*	3			
WELL 1xx	Wellness*	1	Varies	Art, Music, Theatre or Dance*	3
Varies	1 st language*	3	Varies	2 nd language*	3
		TOTAL			14
			TOTAL 15		
Sophomore – Fall			Sophomore – Spring		
COMM 351	Writing for Strategic Public Relations	3	Varies	3 rd language or Cross Cultural*	3
COMM xxx	Public Relations menu option	3	ENGL xxx	Literature*	3
COMM 211, 218, or 282	Communication Core Media Course OR	3	COMM 211, 218, or 282	Communication Core Media Course OR	3
COMM 241, 313, 342 or 354	Communication Interpersonal Course		COMM 241, 313, 342 or 354	Communication Interpersonal Course	
PHIL/RELI xxx	Philosophy/Religion*	3	RELI/PHIL	Religion/Philosophy*	3
Varies	1 st Social Science, History*	3	Varies	2 nd Social Science, History*	3
		TOTAL			15
			TOTAL 15		
Junior – Fall			Junior – Spring		
COMM xxx	Public Relations menu option	3	COMM 353	Crisis Communication/Media Relations	3
COMM xxx	Public Relations menu option	3	COMM xxx	Public Relations menu option	3
COMM 341	Communication Theory	3	COMM 359	Rhetorical Theory	3
Varies	Laboratory Science*	3-4	BIBL 20x	Knowledge of the Bible*	3
Varies	Core Writing (COMM 247, 254, ENGL 112, 211 or 212)	3	IDNW xxx	Non-Western Studies*	2-3
		TOTAL			15
			TOTAL 14-15		
Senior – Fall			Senior – Spring		
COMM 493	Communication Senior Seminar	3	THEO 2xx	Christian Beliefs*	3
COMM xxx	Public Relations menu option	3	IDS xxx	Ethics/Pluralism/World Views*	3
COMM 391 or INTE 391/394	Communication Practicum OR Internship	1-12		Minor credits/internship/practicum	6-12
IDST xxx	Science, Tech, & World*	3			
	Minor credits				
		TOTAL			13-18
			TOTAL 12-18		

*QuEST requirement

Internships/practica must be taken for a grade rather than pass/fail, and practicum work must be done outside the department to count toward the requirement.

III. EDUCATION

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8-semester plans

Education with Teaching Certification in Grades PreK– 4 (B.S.)

<i>First Year ~ Fall</i>				<i>First Year ~ Spring</i>			
IDFY 101†	First Year Seminar*	3		IDCR 151	Created/Called for Community*(W)	3	
Varies	QuEST Language (1/3)*	3		Varies	QuEST Language (2/3)*	3	
PHSC 102 F,S	Physical Sciences*	3		BIOL 106	Life Sciences	3	
COMM 105†	Fundamentals of Oral Communication*	3		CIS/MATH/STAT	QuEST Mathematical Sciences	3	
HIST 141/142	U.S. History*	3		ENGL160 † F,S	World Literature*	3	
				EDUC 208 F,S	ELLs in K-12 Schools	3	
TOTAL CREDITS			15	TOTAL CREDITS			18
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.							
<i>Sophomore ~ Fall</i>				<i>Sophomore ~ Spring</i>			
EDUC 209† F,S	Princ. & Struct of Mathematics	3		EDSP 207 c F,S	Intro to Special Education	3	
BIBL 20x	Encountering the Bible*	3		EDUC 203 °	Educational Psychology	3	
EDUC 205 F,S	Cultural & Political Geography	3		Varies	Minor/Disciplinary Focus	3	
PHIL/RELI	QuEST Philosophy/Religion*	3		EDUC 226 S	Children's Literature	3	
EDUC 346 F,S	Sociocultural Perspectives	3		HDFS 210 F,S	Child Development (fld ex)	3	
WELL 1xx	Wellness course	1		TEP 210 ° F,S	Sophomore Field Experience	0	
				Varies	QuEST Language (3/3)		
TOTAL CREDITS			16	TOTAL CREDITS			18
Submit Teacher Education Program app by 3/31 to B414.							
<i>Junior ~ Fall</i>				<i>Junior ~ Spring</i>			
EDUC 301 ° F	Literacy Climate, Curriculum & Instruction I	3		EDUC 302 ° S	Literacy Climate, Curriculum & Instruction II	3	
EDUC 303 ° F	Math Climate, Curriculum & Instruction Primary	3		EDUC 304 ° S	Math Climate, Curriculum & Instruction Intrm	2	
EDUC 330 ° F	Instructional Design I	3		EDUC 342 ° S	Social Studies: Climate Curriculum & Instruct	3	
EDSP 307 ° F	Inclusion Practices	3		EDUC 347 ° S	Science: Climate Curriculum & Instruction	3	
Varies	Disciplinary Focus course	3		TEP 314 ° S	Field Experience III in 2-4	0	
TEP 312 ° F	Field Experience II PreK–2	0		THEO 2xx	QuEST Christian Beliefs*	3	
				Varies	Minor/Disciplinary Focus	3	
TOTAL CREDITS			15	TOTAL CREDITS			17
<i>Senior ~ Fall</i>				<i>Senior ~ Spring</i>			
<u>Professional Semester</u>				EDUC 414 ° S	Developmental Programing: Early Childhood CC&I	3	
EDUC 420 ° F	Professional Issues in Education	2		EDUC 415 ° S	Evidence Based ECE Practices	3	
TEP 434 ° F	Student Teaching: PreK–4	9		TEP 465 ° S	Early Childhood Internship	0	
TEP 407 ° F	Student Teaching Seminar	1		Varies	Disciplinary Focus course	3	
				Varies	Disciplinary Focus course	3	
				Varies	QuEST Arts (ART/MUSI/THEA)*	3	
TOTAL CREDITS			12	TOTAL CREDITS			15
*Note: No additional credits can be added to this semester.							

TOTAL : 128 credits

° Courses to be taken concurrently/3 clearances required

Chapter 354 Requirements

Math (6 credits): MATH QuEST, EDUC 209

English (6 credits): IDFY 101, ENGL 160

F=Fall, S=Spring

W Course Requirement Met by _____

† - indicates requirement for admission to the TEP

Study Abroad possibilities: fall or spring semester sophomore year (optional). More details on back of page.

*QuEST requirement

Required Disciplinary Focus for Education with Teaching Certification in PreK–4 All students who major in PreK–4 must complete a 12-credit *Disciplinary Focus* to provide depth in an academic discipline other than Education. The *Disciplinary Focus* requirement can be satisfied through either of the following two options:

Option I – Completion of a Disciplinary Focus is twelve credits within a single academic discipline. These credits may not overlap with QuEST or any other courses completed for the major. A “discipline” is defined as courses from a single academic department or courses from two closely related departments (e.g., Psychology and Sociology, Biology and Chemistry, History and Political Science). **Students must obtain advance approval from their advisors and the Department of Education chair for all courses selected to complete the *Disciplinary Focus* option.**

Option II – Completion of an approved college minor. At least twelve credits must be distinct (i.e., may not overlap with QuEST or any other courses completed for the major). The Socio-Cultural Perspectives on Education** Minor **may** be completed to satisfy the disciplinary focus requirement.

Disciplinary Focus Record

(select one option/column)

<i>Disciplinary Focus</i>	<i>Minor</i>
1.	1.
2.	2.
3.	3.
4.	4.
	5.
	6.

Study abroad options:

A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. Study abroad should occur during Fall or Spring of your sophomore year. The following courses may be fulfilled with study abroad courses: COMM 105, QuEST Foreign Language, QuEST Philosophy/Religion, QuEST U.S. History, QuEST Mathematical Sciences, BIOL 106, PHSC 102, EDUC 205, HDFS 210.

Special Education N-12th with Teaching Certification, Pre-K -12th (B.S.)
8-semester plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar	3	IDCR 151	Created and Called for Community	3
Varies	1 st semester of language	3	Varies	2 nd semester of language	3
COMM 105	Fundamentals of Oral Communication	3	Varies F, S	QuEST Mathematical Science	3-4
HIST 141	U.S. History (or HIST 142)	3	EDUC 208 F, S	Teaching English Language Learners	3
Well 1xx F,S	Wellness course	1	PHSC 102	Physical Sciences	3
BIOL 106	Life Sciences	3	EDUC 209 F, S	Principles and Structures of Mathematics †	3
			Submit security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.		
Total		16	Total		18
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd semester of language or cross-cultural*	3	BIBL 20x	Knowledge of the Bible	3
EDSP 207 F, S	Introduction to Special Education*	3	EDUC 346 F, S	Sociocultural Perspectives in Education	3
EDUC 203	Educational Psychology*	3	HDFS 311 F, S	Adolescent Development	3
TEP 210	Sophomore Field Experience*	0	EDSP 396 S	Infants, Toddlers, Families	3
HDFS 210	Child Development (fld exp)	3	Varies	Disciplinary Focus	3
Varies	ENGL 160 World Literature (F, S) or ENGL 365 Young Adult Literature (F, even years)	3	Varies	ENGL 160 World Literature (F, S) or EDUC 226 Children's Literature (S)	3
Varies	Disciplinary Focus	3			
Optional: Study Abroad Semester			Submit Teacher Education Program app by 3/31 to B414.		
Total		18	Total		18
Junior – Fall			Junior – Spring		
EDUC 301* F	Literacy Climate, Curriculum & Instruction I	3	EDUC 302*S	Literacy Climate, Curriculum & Instruction II	3
EDUC 303* F	Math Climate, Curriculum & Instruction Primary	3	EDUC 304*S	Math Climate, Curriculum & Instruction Intm	2
EDUC 330/31*F	Instructional Design	3	EDSP 398	Low Incidence Instructional Strategies	3
EDSP 397* F	High Incidence Instructional Strategies	3	TEP 314*S	Field Experience III Grades 2-4	0
TEP 312* F	Field Experience II PreK-2	0	Varies	QuEST Art, Music, or Theatre	3
Varies	Disciplinary Focus	3	Varies	Disciplinary Focus	3
			Varies	Disciplinary Focus	3
Total		15	Total		17
Submit Professional Semester application by 11/1 to B414					
Senior – Fall			Senior – Spring		
Professional Semester			THEO 2xx	Christian Beliefs	3
EDUC 420*F	Professional Issues in Education	2	Varies	QuEST Philosophy or Religion	3
TEP 432*F	Student Teaching: Special Education	9	TEP 420*S	Special Education Internship	0
TEP 407*F	Student Teaching Seminar	1	EDSP 399*S	Positive Behavior	3
			EDSP 409	Psychological Testing	3
			EDME 537	Secondary Special Education and Transition	3
*Note: No additional credits can be added to this semester.					
Total		12	Total		15

TOTAL : 129 credits

*Courses to be taken concurrently/3 clearances required
Chapter 354 Requirements
Math (6 credits): CIS/MATH/STAT Quest, MATH/EDUC 209
English (9 credits): IDFY 101, ENGL 160, choice of either Young Adult Literature or Children's Literature
NOTE, you must take ENGL 160 (also fulfills NW)

† - indicates requirement for admission to the TEP

Study Abroad possibility: Fall semester sophomore year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses: COMM 105, QuEST language, QuEST Philosophy/Religion, QuEST U.S. HIST 141/142, BIOL106, PHSC 102, QuEST Mathematical Sciences.

Special Education majors are strongly encouraged to pursue one of the following minors or endorsement programs:

Minor	Recommended if you are interested in:
TESOL (Minor-18 credits, Certificate-15 credits)	Adding certification to teach English language learners. This is a high need area in teaching whether you teach special education serving students who are ELs or you teach ELs who are at risk of being identified with a disability.
Speech and Language Pathology (20 credits)	Specializing in autism or serious communication disorders, if you want to teach in a communication intensive classroom or a multiple disabilities classroom, or if you are interested in pursuing a masters degree later in Speech and Language Pathology.
Disability and Family Wellness (18 credits)	Specializing in family support, community outreach, or disability-related community supports. Requires careful planning as only 2 courses can overlap between those already required for your major.
HDFS (18 credits)	Specializing in functional curriculum for learners with more severe or profound disabilities, such as life skills or multiple disabilities classrooms. Specializing in development and the family.
English (18 credits)	Language arts interventions at middle or high school settings. Please plan to take English Composition as one elective in that minor.
Math (20-21 credits)	Math interventions at high school. This minor does NOT teach you the mathematics you would support in middle or secondary special education, though it does prepare you to think mathematically, and pursue positions that expect math intervention expertise.

Education with Dual Teaching Certification in PreK-4 & Special Education (N-12) B.S.
8-semester plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101†	First Year Seminar*	3	IDCR 151	Created and Called for Community*(W)	3
VARIES	QuEST Language (1/3)*	3	VARIES	QuEST Language (2/3)*	3
PHSC 102 F,S	Physical Sciences*	3	BIOL 106	Life Sciences	3
COMM 105†	Fundamentals of Oral Communication*	3	CIS/MATH/STAT†	QuEST Mathematical Sciences	3
HIST 141/142	U.S. History*	3	ENGL160 † F,S	World Literature*	3
WELL 101 F,S	Wellness	1	EDUC 209 F,S	Principles & Structures of Math	3
	TOTAL	16		TOTAL	18
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.					
Sophomore –Fall			Sophomore – Spring		
HDFS 210	Child Development	3	HDFS 396 F,S	Infants, Toddlers, Families	3
BIBL 20x	Encountering the Bible	3	EDUC 226 S	Children's Literature	3
Varies	QuEST Language/Cross Cult (3/3)	3	EDUC 205 F,S	Cultural & Political Geo	3
EDSP 207°F,S	Introduction to Special Education	3	THEO 2xx	QuEST Christian Beliefs*	3
TEP 210° F,S	Sophomore Field Experience	0	HDFS 311	Adolescent Development	3
EDUC 346 F,S	Sociocultural Perspectives	3	EDUC 208	Teaching English Language Learners	3
EDUC 203°	Educational Psychology	3			
	TOTAL	18		TOTAL	18
Optional: Study Abroad Semester			Submit Teacher Education Program app by 3/31 to B414.		
Junior – Fall			Junior – Spring		
EDUC 301° F	Literacy Climate, Curriculum & Instruction I	3	EDUC 302° S	Literacy Climate, Curriculum & Instruction II	3
EDUC 303° F	Math Climate, Curriculum & Instruction Primary	3	EDUC 304° S	Math Climate, Curriculum & Instruction Intm	2
EDUC 330° F	Instruct. Design I	3	EDUC 342° S	Social Studies: Climate Curriculum & Instruct	3
EDSP 397	High Incidence Instructional Strateg.	3	EDUC 347° S	Science: Climate Curriculum & Instruction	3
TEP 312° F	Field Experience II in PreK-2	0	EDSP 398	Low Incidence Instr. Strategies	3
Varies	QuEST Arts (ART/MUSI/THEA)*	3	TEP 314° S	Field Experience III in gr 2-4	0
	TOTAL	15		TOTAL	14
Submit Professional Semester application by 11/1 to B414.			TOTAL		
Senior – Fall			Senior – Spring		
	<u>Professional Semester</u>		EDSP 409°	Psychological Testing	3
EDUC 420° F	Professional Issues in Ed	2	EDUC 414° S	Developmental Programming: EC C&I	3
TEP 432° F	Student Teaching: Special Education	9	EDUC 415° S	Evidence Based ECE Practices	3
TEP 407° F	Student Teaching Seminar	1	TEP 420° S	Special Education Internship	0
			PHIL/RELI	QuEST Philosophy/Religion	3
			EDSP 399° F,S	Positive Behavior Support	3
			EDME 537	Transition and Secondary Special Ed	3
	TOTAL	12		TOTAL	18

TOTAL : 129 credits

*QuEST requirement

Chapter 354 Requirements

°Courses to be taken concurrently/3 clearances required

Math (6 credits): CIS/MATH/STAT, EDUC 209

† - indicates requirement for admission to the TEP

English (6 credits): IDFY 101, ENGL 160

Study Abroad possibility: fall semester soph yr

A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses: COMM 105, QuEST Language, QuEST Philosophy/Religion, QuEST U.S. History, BIOL 106, PHYS 102, QuEST Mathematical Sciences, HDFS 310, EDUC 205

Education with Teaching Certification in Grades 4–8 (B.S.) English Concentration
Messiah University
8-semester plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101†	First Year Seminar *	3	IDCR 151	Created and Called for Community*(W)	3
Varies	QuEST Language (1/3)*	3	Varies	QuEST Language (2/3)*	3
BIOL 106 F,S	Life Sciences	3	PHSC 102 F,S	Physical Sciences*	3
COMM 105†	Fundamentals of Oral Communication*	3	CIS/MATH/STAT	QuEST Mathematical Sciences	3
MATH 1xx	MATH 101/102/108/111	3-4	ENGL 160† F,S	World Literature*	3
			HIST 141/142	U.S. History*	3
	TOTAL	15-16		TOTAL	18
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.					
Sophomore –Fall			Sophomore – Spring		
ENGL 333-366	Literature course	3	EDSP 207° F,S	Intro to Special Education	3
Varies	QuEST Language/Cross Cult (3/3)*	3	EDUC 203° F,S	Educational Psychology	3
EDUC 209 F,S	Principles & Structures of Math	3	TEP 210° F,S	Sophomore Field Experience	0
EDUC 208	Teaching English Language Learners	3	CHEM 102/102L	(Chemistry for Living- if GEOL not taken in fall semester)	3
WELL 1xx	Wellness*	1	BIBL 20X	Encountering the Bible*	3
GEOL 201/201L	Foundations of Geology	4	ENGL 203 or 270	Writing/Critical Theory	3
			EDUC 205 F,S	Cultural & Political Geography	3
	TOTAL	17		TOTAL	15
Submit Teacher Education Program app by 3/31 to B414.					
Junior – Fall			Junior – Spring		
EDUC 331° F	Inst. Design & Assess Mid & Sec.	3	EDUC 302° S	Literacy: Climate, Curriculum & Instruction II	3
EDSP 307° F	Inclusion Practices	3	EDUC 304° S	Math: Climate, Curriculum & Instruction Intm	3
ENGL 201 F, S	Intro to English Studies I OR ENGL 202	3	EDUC 342° S	Social Studies: Climate Curriculum & Instruct	3
EDUC 305° F	Middle Level Methods	3	EDUC 226 S	Children's Literature	3
TEP 316° F	Field Experience II in gr. 6-8	0	TEP 318° S	Field Experience III in gr. 4-5	0
HDFS 311 F,S	Adolescent Development	3	EDUC 347° S	Science: Climate Curriculum & Instruction	3
ENGL 307	Teaching English in Secondary Schools	3			
	TOTAL	18		TOTAL	15
Submit Professional Semester application by 11/1 to B414.					
Senior – Fall			Senior – Spring		
	<u>Professional Semester</u>		EDUC 346	Socio-Cult. Perspective on Educ	3
EDUC 420° F,S	Professional Issues in Education	2	THEO 2xx	QuEST Christian Beliefs*	3
TEP 433° F,S	Student Teaching: Gr 4-8	9	Varies	QuEST Arts (ART/MUSI/THEA)*	3
TEP 407° F,S	Student Teaching Seminar	1	PHIL/RELI	QuEST Philosophy/Religion	3
			ENGL 333-366	Literature course	3
	TOTAL	12		TOTAL	15

*QuEST requirement

F=Fall, S=Spring; compiled 3/8/11

° Courses to be taken concurrently/3 clearances required

ENGL 203 F, 305/370F – 2 of the 3 courses required

† Indicates a requirement for admission to the TEP.

Study Abroad possibilities: fall-sophomore year, spring-sophomore year, semester without student teaching-senior year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses: COMM 105, QuEST Mathematical Sciences, QuEST Language*, BIOL 106, PHSC 102, ENGL XXX, EDUC 226 Children's Literature, QuEST Philosophy/Religion, QuEST U.S. History, QuEST Arts.

Chapter 354 Requirements:

Math (6 credits): EDUC 209, CIS/MATH/STAT

English (6 credits): IDFY 101, ENGL 160 (W)

Education with Teaching Certification in Grades 4–8 (B.S.) Math & English Concentration Messiah University 8-semester plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101†	First Year Seminar *	3	IDCR 151	Created and Called for Community*(W)	3
Varies	QuEST Language (1/3)*	3	Varies	QuEST Language (2/3) *	3
BIOL 106 F,S	Life Sciences	3	PHSC 102 F,S	Physical Sciences*	3
COMM 105†	Fundamentals of Oral Communication*	3	Varies	QuEST Mathematical Sciences	3
MATH 111†	Calculus I	4	ENGL 160† F,S	World Literature*	3
			WELL 1xx	Wellness*	1
	TOTAL	16		TOTAL	16
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.					
Sophomore –Fall			Sophomore – Spring		
			EDSP 207° F,S	Intro to Special Education	3
Varies	QuEST Language/Cross Cult (3/3)*	3	EDUC 203° F,S	Educational Psychology	3
EDUC 209 F,S	Principles & Structures of Math	3	TEP 210° F,S	Sophomore Field Experience	0
Varies	Math elective: CIS 181/MATH 112/ STAT 291/ PHYS 201/202/212	3-4	CHEM 102/L	Chemistry for Living (if GEOL not taken in Fall semester)	3
EDUC 208	Teaching English Language Learners	3	BIBL 20X	Encountering the Bible**	3
GEOL 201/L	Foundations of Geology	4	ENGL 333-366	Literature course	3
			EDUC 205 F,S	Cultural & Political Geography	3
			HIST 141/142	U.S. History*	3
	TOTAL	16-17		TOTAL	18
Submit Teacher Education Program app by 3/31 to B414.					
Junior – Fall			Junior – Spring		
EDUC 331° F	Inst. Design & Assess Mid & Sec.	3	EDUC 302° S	Literacy Climate, Curriculum & Instruct II	3
EDSP 307° F	Inclusion Practices	3	EDUC 304° S	Math Climate, Curriculum & Instruct Interm	3
EDUC 305° F	Middle Level Methods	3	EDUC 342° S	Social Studies: Climate Curriculum & In	3
TEP 316° F	Field Experience II in gr. 6-8	0	EDUC 226 S	Children's Literature	3
HDFS 311 F,S	Adolescent Development	3	TEP 318° S	Field Experience III in gr. 4-5	0
ENGL 307	Teaching English in Secondary Schools	3	EDUC 347° S	Science: Climate Curriculum & Instruct	3
			MATH 307°	Secondary Mathematics Instruction	2
	TOTAL	15		TOTAL	17
Submit Professional Semester application by 11/1 to B414.					
Senior – Fall			Senior – Spring		
	Professional Semester		EDUC 346	Socio-Cult. Perspective on Educ	3
EDUC 420° F,S	Professional Issues in Education	2	THEO 2xx	QuEST Christian Beliefs*	3
TEP 433° F,S	Student Teaching: Grades 4-8	9	Varies	QuEST Arts (ART/MUSI/THEA)*	3
TEP 407° F,S	Student Teaching Seminar	1	PHIL/RELI	QuEST Philosophy/Religion*	3
			STAT 269	Introduction to Statistics	3
	*Note: No additional credits can be added to this semester.				
	TOTAL	12		TOTAL	15

*QuEST requirement

° Courses to be taken concurrently/3 clearances required

(w) Writing enriched course

† Indicates a requirement for admission to the TEP.

Math electives include:

CIS 181 Computer Programming I

MATH 112 Calculus II (4)

STAT 291 Statistics for Math I (3)

PHYS 201 Introductory Physics I (4)

PHYS 202 Introductory Physics II (4)

F=Fall, S=Spring

Chapter 354 Requirements:

Math (6 credits): EDUC 209, CIS/MATH/STAT

English (6 credits): IDFY 101, ENGL 160 (W)

PHYS 211 General Physics I (4)

PHYS 212 General Physics II (4)

Study Abroad possibilities: fall-sophomore year, spring-sophomore year, semester without student teaching-senior year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses:

- COMM 105
- QuEST Mathematical Sciences *
- QuEST Arts requirement
- BIOL 106 Life Sciences
- QuEST Philosophy/Religion*
- QuEST Language*
- PHSC 102 Physical Sciences*

Education with Teaching Certification in Grades 4–8 (B.S.) Math & Social Studies Concentration
Messiah University 8-semester plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101†	First Year Seminar* *	3	IDCR 151	Created and Called for Community*(W)	3
Varies	QuEST Language (1/3)*	3	Varies	QuEST Language (2/3)*	3
BIOL 106 F,S	Life Sciences	3	PHSC 102 F,S	Physical Sciences*	3
COMM 105†	Fundamentals of Oral Communication**	3	CIS/MATH/STAT	QuEST Mathematical Sciences	3
MATH 111†	Calculus I	4	ENGL 122-176†	Literature Elective	3
			HIST 142	U.S. History*	3
	TOTAL	16		TOTAL	18
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.					
Sophomore –Fall			Sophomore – Spring		
GEOL 201/L	Foundations of Geology	4	EDSP 207° F,S	Intro to Special Education	3
Varies	QuEST Language/Cross Cult (3/3)*	3	EDUC 203° F,S	Educational Psychology	3
EDUC 209 F,S	Principles & Structures of Math	3	TEP 210° F,S	Sophomore Field Experience	0
HIST 141	U.S. History*	3	CHEM 102/102L	Chemistry for Living – (IF GEOL not taken in Fall semester)	3
EDUC 208	Teaching English Language Learners	3	BIBL 20x	Encountering the Bible**	3
WELL xxx	Wellness*	1	HIST varies	History elective HIST 271, 272 or 3xx	3
			EDUC 205 F,S	Cultural & Political Geography	3
	TOTAL	17		TOTAL	15
Submit Teacher Education Program app by 3/31 to B414.					
Junior – Fall			Junior – Spring		
EDUC 331° F	Inst. Design & Assess Mid & Sec.	3	EDUC 302° S	Literacy Climate, Curriculum & Instruction II	3
EDSP 307° F	Inclusion Practices	3	EDUC 304° S	Math Climate, Curriculum & Instruction Intm	3
EDUC 305° F	Middle Level Methods	3	EDUC 342° S	Social Studies: Climate Curriculum & Instruct	3
TEP 316° F	Field Experience II in Grades 6-8	0	MATH 307°	Secondary Mathematics Instruction	2
HDFS 311 F,S	Adolescent Development	3	TEP 318° S	Field Experience III in Grades 4-5	0
Varies	HIST 202 and HIST 203, or ARCG 208, HIST 205, 206, 210, 212, 240, 248, 256, 273, 274	3-4	EDUC 347° S	Science: Climate Curriculum & Instruction	3
			STAT 269	Introduction to Statistics	3
	TOTAL	15-16		TOTAL	17
Submit Professional Semester application by 11/1 to B414.					
Senior – Fall			Senior – Spring		
	<u>Professional Semester</u>		EDUC 346	Socio-Cult. Perspective on Educ	3
EDUC 420° F,S	Professional Issues in Education	2	THEO 2xx	QuEST Christian Beliefs*	3
TEP 433° F,S	Student Teaching: Grades 4-8	9	Varies	QuEST Arts (ART/MUSI/THEA)*	3
TEP 407° F,S	Student Teaching Seminar	1	MATH elective	See list below##	3-4
			EDUC 226 S	Children’s Literature	3
	TOTAL	12		TOTAL	15-16

F=Fall, S=Spring

° Courses to be taken concurrently/3 clearances required (w) Writing enriched course

† Indicates a requirement for admission to the TEP.

Math electives include: CIS 181, MATH 112, STAT 291, PHYS 201, PHYS 202, PHYS 211, PHYS 212 General Physics II (4)

Study Abroad possibilities: fall-sophomore year, spring-sophomore year, semester without student teaching-senior year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses:

- | | |
|--|---|
| <ul style="list-style-type: none"> • COMM 105 Oral Communication* • BIOL 106 Life Sciences • PHSC 102 Physical Sciences* • QuEST Mathematical Sciences * | <ul style="list-style-type: none"> • QuEST Philosophy/Religion* • QuEST Language* • QuEST Arts |
|--|---|

Chapter 354 Requirements:

Math (6 credits): EDUC 209, CIS 171

English (6 credits): IDFY 101, ENGL 160 (W)

*QuEST requirement

**Education with Teaching Certification in Grades 4–8 (B.S.) Math Concentration
Messiah University 8-semester plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101†	First Year Seminar*	3	IDCR 151	Created and Called for Community*(W)	3
Varies	QuEST Language (1/3)*	3	Varies	QuEST Language (2/3)*	3
BIOL 106 F,S	Life Sciences	3	MATH 112#	Calculus II	4
COMM 105†	Fundamentals of Oral Communication**	3	Varies	QuEST Mathematical Sciences	3
MATH 111†	Calculus I	4	ENGL 160† F,S	World Literature*	3
			WELL xxx	Wellness*	1
	TOTAL	16		TOTAL	17
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.					
Sophomore –Fall			Sophomore – Spring		
Varies	QuEST Language/Cross Cult (3/3)*	3	EDSP 207° F,S	Intro to Special Education	3
EDUC 209 F,S	Principles & Structures of Math	3	EDUC 203° F,S	Educational Psychology	3
PHSC 102 F,S	Physical Sciences*	3	TEP 210° F,S	Sophomore Field Experience	0
EDUC 205 F,S	Cultural & Political Geography	3	CHEM 102/102L	Chemistry for Living – (IF GEOL not taken in Fall semester)	3
GEOL 201/L	Foundations of Geology	4	BIBL 20X	Encountering the Bible*	3
			EDUC 208	Teaching English Language Learners	3
			HIST 141/142	U.S History *	3
	TOTAL	16		TOTAL	15
Submit Teacher Education Program app by 3/31 to B414.					
Junior – Fall			Junior – Spring		
EDUC 331° F	Inst. Design & Assess Mid & Sec.	3	EDUC 302° S	Literacy Climate, Curriculum & Instruction II	3
EDSP 307° F	Inclusion Practices	3	EDUC 304° S	Math Climate, Curriculum & Instruction Intm	3
EDUC 305° F	Middle Level Methods	3	EDUC 342° S	Social Studies: Climate Curriculum & Instruct	3
TEP 316° F	Field Experience II in Grades 6-8	0	EDUC 226 S	Children’s Literature	3
HDFS 311 F,S	Adolescent Development	3	TEP 318° S	Field Experience III in Grades 4-5	0
STAT 269/291#	Statistics	3	EDUC 347° S	Science: Climate Curriculum & Instruction	3
			MATH 307#	Secondary Mathematics Instruction	2
	TOTAL	15		TOTAL	17
Submit Professional Semester application by 11/1 to B414.					
Senior – Fall			Senior – Spring		
	<u>Professional Semester</u>		EDUC 346	Socio-Cult. Perspective on Educ	3
EDUC 420° F,S	Professional Issues in Education	2	THEO 2xx	QuEST Christian Beliefs*	3
TEP 433° F,S	Student Teaching: Grades 4-8	9	Varies	QuEST Arts (ART/MUSI/THEA)*	3
TEP 407° F,S	Student Teaching Seminar	1	MATH/PHYS#	Math Elective 1 (see chart)	4
			PHYS XXX#	Math Elective 2 (see chart)	4
	TOTAL	12		TOTAL	17

*QuEST requirement

Math Concentration (21 Credits Minimum)

MATH 111	4
MATH 112	4
MATH 307	2
STAT 269/291	3
Elective #1	4
Elective #2	4

Elective #1: PHYS 201, PHYS 211, MATH 211

Elective #2: PHYS 201, PHYS 202, PHYS 211, PHYS 212

F=Fall, S=Spring; compiled 3/8/11

° Courses to be taken concurrently/3 clearances required

(w) Writing enriched course

† Indicates a requirement for admission to the TEP.

Chapter 354 Requirements:

Math (6 credits): EDUC 209, CIS/MATH/STAT

English (6 credits): IDFY 101, ENGL 160 (W)

Study Abroad possibilities: fall-sophomore year, spring-sophomore year, semester without student teaching-senior year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses:

- COMM 105, QuEST Mathematical Sciences, QuEST Language, BIOL 106, PHSC 102, EDUC 226, HIST 141, QuEST Arts

**Education with Teaching Certification in Grades 4–8 (B.S.) Science and English Concentration
Messiah University 8-semester plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101†	First Year Seminar *	3	IDCR 151	Created and Called for Community* (W)	3
Varies	QuEST Language (1/3)*	3	Varies	QuEST Language (2/3)*	3
BIOL 106 F,S	Life Sciences	3	PHSC 102 F,S	Physical Sciences*	3
COMM 105†	Fundamentals of Oral Communication*	3	CIS/MATH/STAT	QuEST Mathematical Sciences	3
MATH 1xx†	MATH 101 or 102 or 108 or 111	3-4	Varies	Science Concentration Elective	3-4
			WELL xxx	Wellness	1
	TOTAL	15-16		TOTAL	16-17
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.					
Sophomore –Fall			Sophomore – Spring		
Varies	QuEST Language/Cross Cult (3/3)*	3	EDSP 207° F,S	Intro to Special Education	3
EDUC 209 F,S	Principles & Structures of Math	3	EDUC 203° F,S	Educational Psychology	3
ENGL 333-366	Literature Elective	3	TEP 210° F,S	Sophomore Field Experience	0
ENGL 160† F,S	World Literature*	3	CHEM 102/102L	Chemistry for Living – (IF GEOL not taken in Fall semester)	3
GEOL 201/L	Foundations of Geology	4	BIBL 20x	Encountering the Bible*	3
			EDUC 208	Teaching English Language Learners	3
			EDUC 205 F,S	Cultural & Political Geography	3
			Varies	Science concentration elective	3
	TOTAL	16		TOTAL	18
Submit Teacher Education Program app by 3/31 to B414.					
Junior – Fall			Junior – Spring		
EDUC 331° F	Inst. Design & Assess Mid & Sec.	3	EDUC 302° S	Literacy Climate, Curriculum & Instruction II	3
EDSP 307° F	Inclusion Practices	3	EDUC 304° S	Math Climate, Curriculum & Instruction Intm	3
Varies	Science Concentration Elective	3-4	EDUC 342° S	Social Studies: Climate Curriculum & Instruct	3
EDUC 305° F	Middle Level Methods	3	EDUC 226 S	Children’s Literature	3
TEP 316° F	Field Experience II in gr. 6-8	0	TEP 318° S	Field Experience III in gr. 4-5	0
HDFS 311 F,S	Adolescent Development	3	EDUC 347° S	Science: Climate Curriculum & Instruction	3
ENGL 307	Teaching English in Secondary Schools	3			
	TOTAL	18		TOTAL	15
Submit Professional Semester application by 11/1 to B414.					
Senior – Fall			Senior – Spring		
	Professional Semester		EDUC 346	Socio-Cult. Perspective on Educ	3
EDUC 420° F,S	Professional Issues in Education	2	THEO 2xx	QuEST Christian Beliefs*	3
TEP 433° F,S	Student Teaching: Grades 4-8	9	Varies	QuEST Arts (ART/MUSI/THEA)*	3
TEP 407° F,S	Student Teaching Seminar	1	PHIL/RELI	QuEST Philosophy/Religion	3
			HIST 141/142	U.S. History*	3
	TOTAL	12		TOTAL	15

*QuEST requirement

F=Fall, S=Spring; compiled 3/8/11

° Courses to be taken concurrently/3 clearances required

(w) Writing enriched course

† Indicates a requirement for admission to the TEP.

Chapter 354 Requirements:

Math (6 credits): EDUC 209, CIS/MATH/STAT

English (6 credits): IDFY 101, ENGL 160 (W)

More information on next page.

***Science Concentration Electives: Need 9-12 credits of the following:

BIOL 158 Human Biology (4) or BIOL 185 Human Anatomy & Physiology I (4)
BIOL 170 Cell and Animal Physiology (4)
BIOL 172 Diversity of Life and Plant Science (4)
BIOL 189 Genetics for the Health Profession (3)
ENVS 216 Environmental Issues and Sustainable Solutions (3)
ENVS 315 Environmental Ethics (3)
CHEM 103 Chemical Science (4)
CHEM 105 General Chemistry I (4)
CHEM 106 General Chemistry II (4)
PHYS 201 Introductory Physics I (4) {and PHYS 202 Introductory Physics II (4) if second PHYS course desired}
PHYS 211 General Physics I (4) {and PHYS 212 General Physics II (4) or PHYS 202 if second PHYS course desired}
CHEM 102 Chemistry for Living (3)
or GEOL 201 Foundations of Geology (4)
SUST 140 Introduction to Ecology and Sustainability (3) or BIOL 117 Field Biology (3)

Study Abroad possibilities: fall-sophomore year, spring-sophomore year, semester without student teaching-senior year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses: COMM 105, BIOL 106 Life Sciences, PHSC 102 Physical Sciences*, QuEST Mathematical Sciences, QuEST Philosophy/Religion, QuEST Language, QuEST Arts

**Education with Teaching Certification in Grades 4–8 (B.S.) Science and Math Concentration
Messiah University 8-semester plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101†	First Year Seminar *	3	IDCR 151	Created and Called for Community*(W)	3
Varies	QuEST Language (1/3)*	3	Varies	QuEST Language (2/3)*	3
BIOL 106 F,S	Life Sciences	3	PHSC 102 F,S	Physical Sciences*	3
COMM 105†	Fundamentals of Oral Communication*	3	CIS/MATH/STAT	QuEST Mathematical Sciences	3
MATH 111†	Calculus I	4	ENGL 160† F,S	World Literature*	3
			WELL xxx	Wellness	1
	TOTAL	16		TOTAL	16
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.					
Sophomore –Fall			Sophomore – Spring		
Varies	QuEST Language/Cross Cult (3/3)*	3	EDSP 207° F,S	Intro to Special Education	3
EDUC 209 F,S	Principles & Structures of Math C1	3	EDUC 203° F,S	Educational Psychology	3
Varies	Science Concentration Elective	3-4	TEP 210° F,S	Sophomore Field Experience	0
GEOL 201/L	Foundations of Geology	4	CHEM 102/102L	Chemistry for Living – (IF GEOL not taken in Fall semester)	3
EDUC 205	Cultural & Political Geography	3	BIBL 20x	Encountering the Bible*	3
			EDUC 208	Teaching English Language Learners	3
			Varies	Science Concentration Elective	3-4
	TOTAL	16-17		TOTAL	18
Submit Teacher Education Program app by 3/31 to B414.					
Junior – Fall			Junior – Spring		
EDUC 331° F	Inst. Design & Assess Mid & Sec.	3	EDUC 302° S	Literacy Climate, Curriculum & Instruction II	3
EDSP 307° F	Inclusion Practices	3	EDUC 304° S	Math Climate, Curriculum & Instr Intermed	3
STAT 269/291	Statistics	3	EDUC 342° S	Social Studies: Climate Curriculum & Instr	3
EDUC 305° F	Middle Level Methods	3	MATH 307°	Secondary Mathematic Instruction	2
TEP 316° F	Field Experience II in Grades 6-8	0	TEP 318° S	Field Experience III in Grades 4-5	0
HDFS 311 F,S	Adolescent Development	3	EDUC 347° S	Science: Climate Curriculum & Instruction	3
Varies	Science Concentration Elective	3	EDUC 226 S	Children's Literature	3
	TOTAL	18		TOTAL	17
Professional Semester application due by 11/1 to B414.					
Senior – Fall			Senior – Spring		
	<u>Professional Semester</u>		EDUC 346	Socio-Cult. Perspective on Educ	3
EDUC 420° F,S	Professional Issues in Education	2	THEO 2xx	QuEST Christian Beliefs*	3
TEP 433° F,S	Student Teaching: Grades 4-8	9	Varies	QuEST Arts (ART/MUSI/THEA)*	3
TEP 407° F,S	Student Teaching Seminar	1	Varies	MATH 112 or STAT 292	3-4
			HIST 141/142	U.S. History*	3
	TOTAL	12		TOTAL	15-16

*QuEST requirement

F=Fall, S=Spring; (w) Writing in the major course
 ° Courses to be taken concurrently/3 clearances required
 † Indicates a requirement for admission to the TEP.

Chapter 354 Requirements:
 Math (6 credits): EDUC 209, CIS/MATH/STAT
 English (6 credits): IDFY 101, ENGL 160 (W)

See next page for more information

***Science Concentration Electives: 9-12 credits of the following: *Nine to twelve credits from the following:*

- BIOL 158 Human Biology (4) or BIOL 185 Human Anatomy & Physiology I (4)
- BIOL 170 Cell and Animal Physiology (4)
- BIOL 172 Diversity of Life and Plant Science (4)
- SUST 140 Introduction to Ecology and Sustainability (3) or BIOL 117 Field Biology (3)
- ENVS 216 Environmental Issues and Sustainable Solutions (3)
- ENVS 315 Environmental Ethics
- CHEM 102 Chemistry for Living (3) or GEOL 201 Foundations of Geology (4)
- CHEM 103 Chemical Science (4)
- CHEM 105 General Chemistry I (4)
- CHEM 106 General Chemistry II (4)
- PHYS 201 Introductory Physics I (4) {and PHYS 202 Introductory Physics II (4) if second PHYS course desired}
- PHYS 211 General Physics I (4) {and PHYS 212 General Physics II (4) or PHYS 202 if second PHYS course desired}

Study Abroad possibilities: fall-sophomore year, spring-sophomore year, semester without student teaching-senior year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses:

- QuEST Mathematical Sciences, BIOL 106, PHSC 102, CHEM 102/105, QuEST Bible, QuEST U.S.HIST 141/142; COMM 105; QuEST Language
- QuEST Arts; EDUC 226

***Science Concentration Electives: 9-11 credits of the following:

- BIOL 158 Human Biology (4) or BIOL 185 Human Anatomy & Physiology I (4)
- BIOL 170 Cell and Animal Physiology (4)
- BIOL 172 Diversity of Life and Plant Science (4)
- BIOL 189 Genetics for Health Professions (3)
- SUST 140 Introduction to Ecology and Sustainability (3) or BIOL 117 Field Biology (3)
- ENVS 216 Environmental Issues and Sustainable Solutions (3)
- ENVS 315 Environmental Ethics
- CHEM 102 Chemistry for Living (3) OR GEOL 201 Foundations of Geology (4)
- CHEM 103 Chemical Science (4)
- CHEM 105 General Chemistry I (4)
- CHEM 106 General Chemistry II (4)
- GEOL 201 Foundations of Geology (4)
- PHYS 201 Introductory Physics I (4) {and PHYS 202 Introductory Physics II (4) if second PHYS course desired}
- PHYS 211 General Physics I (4) {and PHYS 212 General Physics (4) or PHYS 202 if second PHYS course desired}

Study Abroad possibilities: fall-sophomore year, spring-sophomore year, semester without student teaching-senior year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses: COMM 105, QuEST Mathematical Sciences, QuEST Language, BIOL 106, PHSC 102, EDUC 226, QuEST U.S. HIST 141, QuEST Arts

**Education with Teaching Certification in Grades 4–8 (B.S.) Science Concentration
Messiah University 8-semester plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101†	First Year Seminar*	3	IDCR 151	Created and Called for Community*(W)	3
Varies	QuEST Language (1/3)*	3	Varies	QuEST Language (2/3)*	3
BIOL 106 F,S	Life Sciences	3	PHSC 102 F,S	Foundations of Physical Science*	3
COMM 105†	Fundamentals of Oral Communication*	3	Varies	QuEST Mathematical Sciences	3-4
MATH 1xx†	MATH 101/ 102/108//111	3-4	Varies	Science Concentration Elective	3-4
			WELL 1xx	Wellness*	1
	TOTAL	15-16		TOTAL	16-18
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.					
Sophomore –Fall			Sophomore – Spring		
Varies	QuEST Language/Cross Cult (3/3)*	3	EDSP 207° F,S	Intro to Special Education	3
EDUC 209 F,S	Principles & Structures of Math	3	EDUC 203° F,S	Educational Psychology	3
GEOL 201/L	Foundations of Geology	4	TEP 210° F,S	Sophomore Field Experience	0
Varies	Science Concentration Elective	3-4	CHEM 102/102L	Chemistry for Living (if GEOL not taken in Fall semester)	3
ENGL 160† F,S	World Literature*	3	EDUC 205 F,S	Cultural & Political Geography	3
			EDUC 208	Teaching English Language Learners	3
			Varies	Science Concentration Elective	3-4
			BIBL 20X	Encountering the Bible*	3
	TOTAL	16-17		TOTAL	18
Submit Teacher Education Program app by 3/31 to B414.					
Junior – Fall			Junior – Spring		
EDUC 331° F	Inst. Design & Assess Mid & Sec.	3	EDUC 302° S	Literacy Climate, Curriculum & Instruction II	3
EDSP 307° F	Inclusion Practices	3	EDUC 304° S	Math Climate, Curriculum & Instruction Intm	3
Varies	Science Concentration Elective	3	EDUC 342° S	Social Studies: Climate Curriculum & Instruct	3
EDUC 305° F	Middle Level Methods	3	EDUC 226 S	Children’s Literature	3
TEP 316° F	Field Experience II in gr. 6-8	0	TEP 318° S	Field Experience III in gr. 4-5	0
HDFS 311 F,S	Adolescent Development	3	EDUC 347° S	Science: Climate Curriculum & Instruction	3
Varies	Science Concentration Elective	3			
	TOTAL	18		TOTAL	15
Submit Professional Semester application by 11/1 to B414.					
Senior – Fall			Senior – Spring		
	Professional Semester		EDUC 346	Socio-Cult. Perspective on Educ	3
EDUC 420° F,S	Professional Issues in Education	2	THEO 2xx	QuEST Christian Beliefs*	3
TEP 433° F,S	Student Teaching: Grades 4-8	9	Varies	QuEST Arts (ART/MUSI/THEA)*	3
TEP 407° F,S	Student Teaching Seminar	1	HIST 141/142	U.S. History*	3
			Varies	Science Concentration Elective	3-4
	TOTAL	12		TOTAL	15-16

*QuEST requirement

F=Fall, S=Spring; compiled 3/8/11

° Courses to be taken concurrently/3 clearances required

(w) Writing enriched course

† Indicates a requirement for admission to the TEP.

Chapter 354 Requirements:

Math (6 credits): EDUC 209, CIS/MATH/STAT

English (6 credits): IDFY 101, ENGL 160 (W)

Study Abroad possibilities: fall-sophomore year, spring-sophomore year, semester without student teaching-senior year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses:

COMM 105, CIS 171, QuEST Language, BIOL 106, PHSC 102, EDUC 226, QuEST U.S. HIST 141, QuEST Arts

More information on next page.

***Science Concentration Electives: Need 18 credits of the following:

BIOL 158 Human Biology (4) or BIOL 185 Human Anatomy & Physiology I (4)

BIOL 170 Cell and Animal Physiology (4)

BIOL 172 Diversity of Life and Plant Science (4)

BIOL 189 Genetics for Health Professions (3)

SUST 140 Introduction to Ecology and Sustainability (3)

Or BIOL 117 Field Biology (3)

ENVS 216 Environmental Issues and Sustainable Solutions (3)

ENVS 315 Environmental Ethics

CHEM 102 Chemistry for Living (3) OR GEOL 201 Foundations of Geology (4)

CHEM 103 Chemical Science (4)

CHEM 105 General Chemistry I (4)

CHEM 106 General Chemistry II (4)

GEOL 201 Foundations of Geology (4)

PHYS 201 Introductory Physics I (4) {and PHYS 202 Introductory Physics II (4) if second PHYS course desired}

PHYS 211 General Physics I (4) {and PHYS 212 General Physics (4) or PHYS 202 if second PHYS course desired}

**Education with Teaching Certification in Grades 4–8 (B.S.) Social Studies Concentration
Messiah University 8-semester plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101†	First Year Seminar* *	3	IDCR 151	Created and Called for Community*(W)	3
Varies	QuEST Language (1/3) *	3	Varies	QuEST Language (2/3)*	3
BIOL 106 F,S	Life Sciences *	3	PHSC 102 F,S	Physical Sciences*	3
COMM 105†	Fundamentals of Oral Communication*	3	CIS/MATH/STAT	QuEST Mathematical Sciences	3
MATH 1xx†	MATH 101 or 102 or 108 or 111	3-4	ENGL 122-176†	Literature Elective	3
			HIST 142	U.S. History*	3
	TOTAL	15-16		TOTAL	18
Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.					
Sophomore –Fall			Sophomore – Spring		
Varies	QuEST Language/Cross Cult (3/3)*	3	EDSP 207° F,S	Intro to Special Education	3
EDUC 209 F,S	Principles & Structures of Math	3	EDUC 203° F,S	Educational Psychology	3
WELL xxx	Wellness	1	TEP 210° F,S	Sophomore Field Experience	0
EDUC 208	Teaching English Language Learners	3	CHEM 102/102L	Chemistry for Living (if GEOL not taken in fall semester)	3
BIBL 20x	Encountering the Bible*	3	HIST 141	U.S. History*	3
GEOL 201/L	Foundations of Geology	4	HIST 3XX	History (Non-western)*	3
			EDUC 205 F,S	Cultural & Political Geography	3
	TOTAL	17		TOTAL	18
Submit Teacher Education Program app by 3/31 to B414.					
Junior – Fall			Junior – Spring		
EDUC 331° F	Inst. Design & Assess Mid & Sec.	3	EDUC 302° S	Literacy Climate, Curriculum & Instruction II	3
EDSP 307° F	Inclusion Practices	3	EDUC 304° S	Math Climate, Curriculum & Instruction Intm	3
Varies	At least 3 credits from the following: HIST 202 and HIST 203, ARCG 208, HIST 205, 206, 210, 212, 240, 248, 256, 273, 274	3	EDUC 342° S	Social Studies: Climate Curriculum & Instruction	3
EDUC 305° F	Middle Level Methods	3	EDUC 226 S	Children's Literature	3
TEP 316° F	Field Experience II in Grades 6-8	0	TEP 318° S	Field Experience III in Grades 4-5	0
HDFS 311 F,S	Adolescent Development	3	EDUC 347° S	Science: Climate Curriculum & Instruction	3
			POLI 113	American Government	3
	TOTAL	15		TOTAL	18
Submit Professional Semester application by 11/1 to B414.					
Senior – Fall			Senior – Spring		
	Professional Semester		EDUC 346	Socio-Cult. Perspective on Educ	3
EDUC 420° F,S	Professional Issues in Education	2	THEO 2xx	QuEST Christian Beliefs*	3
TEP 433° F,S	Student Teaching: Grades 4-8	9	Varies	QuEST Arts (ART/MUSI/THEA)*	3
TEP 407° F,S	Student Teaching Seminar	1	HIST 271/272	World History	3
			ECON 110	Economics	3
	TOTAL	12		TOTAL	15

*QuEST requirement

F=Fall, S=Spring; compiled 3/8/11

° Courses to be taken concurrently/3 clearances required (w) Writing enriched course

† Indicates a requirement for admission to the TEP.

Chapter 354 Requirements:

Math (6 credits): EDUC 209, CIS/MATH/STAT

English (6 credits): IDFY 101, ENGL 160 (W)

Study Abroad possibilities: fall-sophomore year, spring-sophomore year, semester without student teaching-senior year. A semester abroad requires careful planning with your advisor, starting in your first year at Messiah. The following courses may be fulfilled with study abroad courses: COMM 105, QuEST Mathematical Sciences, QuEST Language, BIOL 106, PHSC 102, EDUC 226, QuEST U.S. HIST 141, QuEST Arts

III. ENGINEERING

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Students with Advanced Placement credit:

Requirements for some courses in mathematical sciences can be met through Advanced Placement exam credit. Messiah College credit for various AP exams can be found at the following link, or through the registrar's website:

http://www.messiah.edu/info/21351/transfer_ap_clep_courses/2107/apclepib_equivalencies/3

Engineering Programs

BSBME²

Bachelor of Science in Biomedical Engineering

BSCE²

Bachelor of Science in Civil Engineering

BSEE²

Bachelor of Science in Electrical Engineering

BSME²

Bachelor of Science in Mechanical Engineering

BSRE³

Bachelor of Science in Robotics Engineering

BSE¹

Bachelor of Science in Engineering

Concentrations available in:

Biomedical Engineering⁴

Computer Engineering

Environmental Engineering

General Engineering⁵

Engineering Minors

Available to those majoring in another Engineering discipline

Biomedical Engineering

Civil Engineering

Electrical Engineering

Environmental Engineering

Mechanical Engineering

Robotics Engineering

¹The BSE degree program has been continuously accredited by ABET since 1993.

^{2,3}Discipline-specific degree programs are relatively new to Messiah and are eligible for initial accreditation review once the first class has graduated.

²BSBME, BSCE, BSEE, and BSME programs graduated their first students in May 2022. The initial accreditation review is underway now, with formal announcement anticipated August 2023.

³BSRE anticipates its first graduating class May 2025 with initial accreditation review to follow; formal accreditation announcement anticipated August 2026.

⁴The Biomedical concentration in the BSE degree is particularly intended for students who hope to study additional science topics, as recommended for medical school, dental school, and veterinary school preparation.

⁵The General concentration is more accessible (fewer credit hours) and particularly intended for students interested in pairing another area of study, such as a minor, with the Engineering degree.

8 Semester Plans

Biomedical Engineering (BSBME)

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
MATH 111	Calculus I*	4	MATH 112	Calculus II	4
CHEM 105	Chemistry*	4	PHYS 211	General Physics I	4
Varies	QuEST 1st semester language *	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	Varies	QuEST 2 nd semester language *	3
Total		16	Total		16
Sophomore – Fall			Sophomore – Spring		
ENGR 213	Engineering Statistics	3	ENGR 211	Project Management	1
ENGR 214	Materials Engineering	4	ENGR 212	Programming for Engineers	2
ENGR 216	Mechanics I	3	ENGR 215	Circuits I	4
MATH 211	Calculus III	4	Varies	Engineering elective	3
COMM 105	Fundamentals of Oral Communication*	3	MATH 270	Linear and Differential Methods	3
			PHIL or RELI	QuEST Philosophy or Religion*	3
			WELL 1xx	Wellness*	1
Total		17	Total		17
Junior – Fall			Junior – Spring		
ENGR 301	Seminar I	1	ENGR 331	Biomechanics	4
ENGR 431	Biomedical Instrumentation	4	Varies	Biomedical Science elective	3
ENGR 415	Engineering Project	1	ENGR xxx	Engineering Elective	4
ENGR xxx	Engineering Elective	4	ENGR 415	Engineering Project	1
Varies	Biomedical Science Elective	3-4	BIBL 2xx	QuEST Knowledge of the Bible*	3
Varies	QuEST Social Science/History 1 of 2*	3	Varies	QuEST Literature *	3
Total		16-17	Total		18
Senior – Fall			Senior – Spring		
ENGR 302	Seminar II	1	ENGR 415	Engineering Project	2
Varies	Engineering elective	4	ENGR 332	BME Laboratory Techniques	3
ENGR 432	Design of Medical Devices	4	ENGR xxx	Engineering Elective	4
Varies	QuEST Social Science/History 2 of 2*	3	Varies	QuEST Christian Beliefs *	3
ENGR 415	Engineering Project	2	Varies	QuEST Ethics/WV/Pluralism*	3
Varies	QuEST 3rd Language/NW/CrossCultural*	2-3			
Total		16-17	Total		15

*QuEST (General Education) requirement

**Civil Engineering (BSCE)
8 Semester Plan**

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
MATH 111	Calculus I*	4	MATH 112	Calculus II	4
CHEM 105	Chemistry*	4	PHYS 211	General Physics I	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	QuEST 1st semester language *	3	Varies	QuEST 2 nd semester language *	3
		Total			16
Sophomore – Fall			Sophomore – Spring		
ENGR 214	Materials Engineering	4	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 215	Circuits I	4
MATH 211	Calculus III	4	ENGR 212	Programming for Engineers	2
GEOL 201	Foundations of Geology	4	ENGR 213	Engineering Statistics	3
COMM 105	Fundamentals of Oral Communication	3	ENGR 323	Mechanics II	3
			MATH 270	Linear and Differential Methods	3
			WELL 1xx	Wellness*	1
		Total			18
Junior – Fall			Junior – Spring		
ENGR 301	Seminar I	1	ENGR 344	Construction Methods and Materials	4
ENGR 341	Structural Design I	4	ENGR 345	Fluid Mechanics	4
ENGR 353	Environmental Engineering	4	ENGR 415	Engineering Project	1
ENGR 415	Engineering Project	1	ENGR 441	Structural Design II	4
Varies	QuEST Social Science/History 1 of 2*	3	BIBL 2xx	QuEST Knowledge of the Bible*	3
PHIL or RELI	QuEST Philosophy or Religion*	3			
		Total			16
Senior – Fall			Senior – Spring		
ENGR 302	Seminar II	1	ENGR 347	Transportation Engineering	3
ENGR 346	Water Resources Engineering	3	ENGR 415	Engineering Project	2
ENGR 415	Engineering Project	2	ENGR 444	Civil Engineering Design	3
ENGR 443	Geotechnical Engineering	4	Varies	QuEST 3rd Language/NW/CrossCultural*	2-3
Varies	QuEST Social Science/History 2 of 2*	3	Varies	QuEST Christian Beliefs *	3
Varies	QuEST Literature *	3	Varies	QuEST Ethics/WV/Pluralism*	3
		Total			16
		Total			16-17

*QuEST (General Education) requirement

Electrical Engineering (BSEE) 8 Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
MATH 111	Calculus I*	4	MATH 112	Calculus II	4
CHEM 105	Chemistry*	4	PHYS 211	General Physics I	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	QuEST 1st semester language *	3	Varies	QuEST 2 nd semester language *	3
		Total			Total
		16			16
Sophomore – Fall			Sophomore – Spring		
ENGR 215	Circuits I	4	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 212	Programming for Engineers	2
MATH 211	Calculus III	4	ENGR 214	Materials Engineering	4
PHYS 212	General Physics II	4	ENGR 361	Circuits II	4
COMM 105	Fundamentals of Oral Communication	3	MATH 270	Linear and Differential Methods	3
			PHIL or RELI	QuEST Philosophy or Religion*	3
		Total			Total
		18			17
Junior – Fall			Junior – Spring		
ENGR 301	Seminar I	1	ENGR 213	Engineering Statistics	3
ENGR 362	Analog Electronics	3	ENGR 364	Electrical Devices	4
ENGR 415	Engineering Project	1	ENGR 365	Linear Systems	3
ENGR 462	Power Electronics	4	ENGR 415	Engineering Project	1
BIBL 2xx	QuEST Knowledge of the Bible*	3	Varies	QuEST Social Science/History 1 of 2*	3
WELL 1xx	Wellness*	1	Varies	QuEST Christian Beliefs *	3
Varies	QuEST Literature *	3			
		Total			Total
		16			17
Senior – Fall			Senior – Spring		
ENGR 302	Seminar II	1	ENGR 363	Embedded Systems Design	4
ENGR 324	Control Systems	4	ENGR 415	Engineering Project	2
ENGR 367	Electromagnetics	3	ENGR 421	Robotic Systems**	4
ENGR 415	Engineering Project	2	ENGR 461	Communication Systems	3
Varies	QuEST Social Science/History 2 of 2*	3	Varies	QuEST Ethics/WV/Pluralism*	3
Varies	QuEST 3rd Language/NW/CrossCultural*	2-3			
		Total			Total
		15-16			16

*QuEST (General Education) requirement

**Additional elective options meet this requirement

Mechanical Engineering (BSME) 8 Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
MATH 111	Calculus I*	4	MATH 112	Calculus II	4
CHEM 105	Chemistry*	4	PHYS 211	General Physics I	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	QuEST 1st semester language *	3	Varies	QuEST 2 nd semester language *	3
		Total			Total
		16			16
Sophomore – Fall			Sophomore – Spring		
ENGR 214	Materials Engineering	4	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 215	Circuits I	4
MATH 211	Calculus III	4	ENGR 212	Programming for Engineers	2
PHYS 212	General Physics II	4	ENGR 323	Mechanics II	3
COMM 105	QuEST – Oral Communication	3	MATH 270	Linear and Differential Methods	3
			Varies	QuEST Literature *	3
		Total			Total
		18			16
Junior – Fall			Junior – Spring		
ENGR 213	Engineering Statistics	3	ENGR 376	Dynamics and Vibrations	4
ENGR 371	Thermodynamics	3	ENGR 378	Manufacturing Processes	3
ENGR 301	Seminar I	1	ENGR 415	Engineering Project	1
ENGR 472	Mechanical Design	4	Varies	QuEST Social Science/History 1 of 2*	3
ENGR 415	Engineering Project	1	BIBL 2xx	QuEST Knowledge of the Bible*	3
WELL 1xx	Wellness*	1	Varies	QuEST 3rd Language/NW/CrossCultural*	2-3
PHIL or RELI	QuEST Philosophy or Religion*	3			
		Total			Total
		16			16-17
Senior – Fall			Senior – Spring		
ENGR 302	Seminar II	1	ENGR 415	Engineering Project	2
ENGR 324	Control Systems**	4	ENGR 421	Robotic Systems	4
ENGR 373	Instrumentation and Measurement	3	ENGR 471	Heat Transfer and Design	4
ENGR 377	Fluid Dynamics	4	Varies	QuEST Social Science/History 2 of 2*	3
ENGR 415	Engineering Project	2	Varies	QuEST Ethics/WV/Pluralism*	3
Varies	QuEST Christian Beliefs *	3			
		Total			Total
		17			16

*QuEST (General Education) requirement

**Additional elective options meet this requirement

Robotics Engineering (BSRE) 8-Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
MATH 111	Calculus I*	4	MATH 112	Calculus II	4
CHEM 105	Chemistry*	4	PHYS 211	General Physics I*	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	QuEST 1st semester language *	3	Varies	QuEST 2 nd semester language *	3
			WELL 1xx	Wellness	1
		Total			Total
		16			17
Sophomore – Fall			Sophomore – Spring		
ENGR 215	Circuits I	4	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 212	Programming for Engineers	2
MATH 211	Calculus III	4	ENGR 214	Materials Engineering	4
PHYS 212	General Physics II	4	ENGR 323	Mechanics II	3
Varies	QuEST 2 nd semester language *	3	ENGR 361	Circuits II	4
			Varies	QuEST Literature *	3
		Total			Total
		18			17
Junior – Fall			Junior – Spring		
ENGR 213	Engineering Statistics	3	ENGR 376	Dynamics and Vibrations**	4
ENGR 301	Seminar I	1	ENGR 363	Embedded Systems Design	4
MATH 270	Linear and Differential Methods	3	ENGR 415	Engineering Project	1
ENGR 415	Engineering Project	1	BIBL 2xx	QuEST Knowledge of the Bible*	3
ENGR 432	Design of Medical Devices**	4	Varies	QuEST Social Science/History 1 of 2*	3
Varies	QuEST Philosophy or Religion*	3			
		Total			Total
		15			15
Senior – Fall			Senior – Spring		
ENGR 302	Seminar II	1	ENGR 415	Engineering Project	2
ENGR 324	Control Systems	4	ENGR 421	Robotic Systems	3
ENGR 373	Instrumentation & Measurement	3	ENGR 378	Manufacturing Processes	3
ENGR 4xx	Industrial Automation	4	Varies	QuEST Social Science/History 2 of 2*	3
ENGR 415	Engineering Project	2	Varies	QuEST Ethics/WV/Pluralism*	3
Varies	QuEST Christian Beliefs *	3	Varies	QuEST 3rd Language/NW/CrossCultural*	2-3
		Total			Total
		17			16-17
					Total Credits
					131-132

*QuEST (General Education) requirement
**Additional elective options meet this requirement

Engineering (BSE) with Biomedical Concentration 8 Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
MATH 111	Calculus I*	4	MATH 112	Calculus II	4
CHEM 105	Chemistry*	4	PHYS 211	General Physics I	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	Biomedical Science Elective	4	Varies	Biomedical Science Elective	4
		Total			Total
		17			17
Sophomore – Fall			Sophomore – Spring		
ENGR 213	Engineering Statistics	3	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 212	Programming for Engineers	2
MATH 211	Calculus III	4	ENGR 215	Circuits I	4
Varies	Biomedical science elective	3-4	MATH 270	Linear and Differential Methods	3
COMM 105	QuEST – Oral Communication	3	Varies	Biomedical Science Elective	3-4
WELL 1xx	Wellness	1	PHIL or RELI	QuEST Philosophy or Religion*	3
		Total			Total
		17-18			16-17
Junior – Fall			Junior – Spring		
ENGR 301	Seminar I	1	ENGR 214	Materials Engineering	4
ENGR 431	Biomedical Instrumentation	4	ENGR 415	Engineering Project	1
ENGR 415	Engineering Project	1	ENGR 331	Biomechanics	4
Varies	QuEST Literature *	3	Varies	QuEST Social Science/History 1 of 2*	3
Varies	Biomedical science elective	4	Varies	QuEST 2 nd semester language *	3
Varies	QuEST 1st semester language *	3			
		Total			Total
		16			15
Senior – Fall			Senior – Spring		
			ENGR 332	BME Laboratory Techniques	3
ENGR 302	Seminar II	1	ENGR 421	Robotic Systems	4
ENGR 432	Design of Medical Devices	4	ENGR 415	Engineering Project	2
ENGR 415	Engineering Project	2	Varies	QuEST Christian Beliefs *	3
BIBL 2xx	QuEST Knowledge of the Bible*	3	Varies	QuEST Ethics/WV/Pluralism*	3
Varies	QuEST 3rd Language/NW/CrossCultural*	2-3			
Varies	QuEST Social Science/History 2 of 2*	3			
		Total			Total
		15-16			15

*QuEST (General Education) requirement

Engineering (BSE) with Computer Concentration 8 Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
MATH 111	Calculus I*	4	MATH 112	Calculus II	4
CHEM 105	Chemistry*	4	PHYS 211	General Physics I	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	QuEST 1st semester language *	3	Varies	QuEST 2 nd semester language *	3
		Total			Total
		16			16
Sophomore – Fall			Sophomore – Spring		
ENGR 215	Circuits I	4	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 212	Programming for Engineers	2
MATH 211	Calculus III	4	ENGR 214	Materials Engineering	4
PHYS 212	General Physics II	4	ENGR 361	Circuits II	4
COMM 105	QuEST – Oral Communication	3	MATH 270	Linear and Differential Methods	3
			CIS 284	Computer Programming II	3
		Total			Total
		18			17
Junior – Fall			Junior – Spring		
ENGR 213	Engineering Statistics	3	ENGR 365	Linear Systems	3
ENGR 301	Seminar I	1	ENGR 415	Engineering Project	1
ENGR 362	Analog Electronics	3	Varies	QuEST Social Science/History 1 of 2*	3
ENGR 415	Engineering Project	1	PHIL or RELI	QuEST Philosophy or Religion*	3
CIS 384	Elements of Computer Systems	3	WELL 1xx	Wellness*	1
BIBL 2xx	QuEST Knowledge of the Bible*	3	Varies	QuEST Social Science/History 2 of 2*	3
Varies	QuEST Literature *	3			
		Total			Total
		17			14
Senior – Fall			Senior – Spring		
ENGR 302	Seminar II	1			
ENGR 324	Control Systems	4	ENGR 363	Embedded Systems Design	4
ENGR 415	Engineering Project	2	ENGR 415	Engineering Project	2
Varies	Computer Engineering Elective	3-4	MATH 180	Discrete Mathematics	3
CIS 385	Data Structures and Algorithms	3	Varies	QuEST Christian Beliefs *	3
Varies	QuEST 3rd Language/NW/CrossCultural*	2-3	Varies	QuEST Ethics/WV/Pluralism*	3
		Total			Total
		15-17			15

*QuEST (General Education) requirement

Engineering (BSE) with Environmental Concentration 8 Semester Plan

*QuEST (General Education) requirement

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
MATH 111	Calculus I*	4	MATH 112	Calculus II	4
CHEM 105	Chemistry*	4	PHYS 211	General Physics I	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	QuEST 1st semester language *	3	Varies	QuEST 2 nd semester language *	3
		Total			16
Sophomore – Fall			Sophomore – Spring		
ENGR 215	Circuits I	4	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 212	Programming for Engineers	2
MATH 211	Calculus III	4	ENGR 214	Materials Engineering	4
PHYS 212	General Physics II	4	MATH 270	Linear and Differential Methods	3
			CHEM 106	Chemistry II	4
			COMM 105	QuEST – Oral Communication	3
		Total			15
Junior – Fall			Junior – Spring		
ENGR 213	Engineering Statistics	3	ENGR 345	Fluid Mechanics	4
ENGR 301	Seminar I	1	ENGR 415	Engineering Project	1
ENGR 353	Environmental Engineering	4	ENGR 451	Water and Wastewater Management	3
ENGR 371	Thermodynamics	3	GIS 245	Intro to Geographical Info Sys	3
ENGR 415	Engineering Project	1	Varies	QuEST Literature *	3
WELL 1xx	Wellness*	1	Varies	QuEST 3rd Language/NW/CrossCultural*	2-3
Varies	QuEST Social Science/History 1 of 2*	3			
		Total			16
Senior – Fall			Senior – Spring		
ENGR 302	Seminar II	1	PHIL or RELI	QuEST Philosophy or Religion*	3
ENGR 346	Water Resources Engineering	3	ENGR 415	Engineering Project	2
ENGR 415	Engineering Project	2	ENGR 453	Hazardous Waste and Air Pollution Mgmt	3
Varies	Environmental Elective	3	Varies	QuEST Social Science/History 2 of 2*	3
Varies	Environmental Science Elective	4	Varies	QuEST Christian Beliefs *	3
BIBL 2xx	QuEST Knowledge of the Bible*	3	Varies	QuEST Ethics/WV/Pluralism*	3
		Total			16
Total			Total		
			16-17		

*QuEST (General Education) requirement

Engineering (BSE) with General Concentration (example) 8 Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
MATH 111	Calculus I*	4	MATH 112	Calculus II	4
CHEM 105	Chemistry*	4	PHYS 211	General Physics I	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
COMM 105	Fundamentals of Oral Communication*	3	Varies	QuEST 1st semester language *	3
			WELL 1xx	Wellness	1
		Total			Total
		16			17
Sophomore – Fall			Sophomore – Spring		
ENGR 214	Materials Engineering	4	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 212	Programming for Engineers	2
MATH 211	Calculus III	4	ENGR 215	Circuits I	4
BIOL 170	Cell and Animal Physiology	4	MATH 270	Linear and Differential Methods	3
Varies	QuEST 2 nd semester language *	3	PHIL or RELI	QuEST Philosophy or Religion*	3
			Varies	QuEST Literature *	3
		Total			Total
		15			16
Junior – Fall			Junior – Spring		
ENGR 213	Engineering Statistics	3	ENGR 323	Mechanics II**	3
ENGR 301	Seminar I	1	ENGR 361	Circuits II**	4
ENGR 373	Instrumentation & Measurement**	3	ENGR 415	Engineering Project	1
ENGR 371	Thermodynamics**	3	BIBL 2xx	QuEST Knowledge of the Bible*	3
ENGR 415	Engineering Project	1	Varies	QuEST Social Science/History 2 of 2*	3
Varies	QuEST Social Science/History 1 of 2*	3			
		Total			Total
		14			16-17
Senior – Fall			Senior – Spring		
ENGR 302	Seminar II	1	ENGR 378	Manufacturing Processes**	3
ENGR 324	Control Systems**	4	ENGR 415	Engineering Project**	2
ENGR 472	Mechanical Design**	4	ENGR 421	Robotic Systems**	4
ENGR 415	Engineering Project	2	Varies	QuEST Christian Beliefs *	3
Varies	ART/DANC/MUGE/THEA fulfilling QuEST	3	Varies	QuEST Ethics/WV/Pluralism*	3
Varies	QuEST 3rd Language/NW/CrossCultural*	2-3			
		Total			Total
		15-16			17

*QuEST (General Education) requirement

**Additional elective options meet this requirement (the plan shown completes the Mechanical Design Track. Other track options are Biomedical, Electronics, Embedded Systems Design, Environmental, Manufacturing, Robotics, Structural Design, Thermal-Fluid Sciences, and Water Resources.)

Beyond the Engineering Majors

Some students pursue coursework beyond their Engineering major. This section summarizes requirements for Engineering minors that are available for students to augment their Engineering major. Note that students must achieve at least 12 unique credit hours that are not also attributed to their major to earn the minor.

We also include on the pages that follow recommended programs of study for students interested in Biomedical Engineering (either the BSBME major or the BSE major with Biomedical concentration) followed by Medical, Dental, or Veterinary School. Those course plans include not only degree requirements, but also coursework recommended for MCAT preparation.

Biomedical Engineering Minor

ENGR 215 Mechanics I (3)
ENGR 216 Circuits I (4)
ENGR 331 Biomechanics (4)
ENGR 332 Biomedical Laboratory Techniques (3)
ENGR 431 Biomedical Instrumentation (4)
ENGR 432 Design of Medical Devices (4)

Civil Engineering Minor

ENGR 216 Mechanics I (3)
ENGR 323 Mechanics II (3)
ENGR 341 Structural Design I (4)
ENGR 353 Environmental Engineering (4)

9 to 12 credits from the following:

ENGR 344 Construction Methods and Materials (4)
ENGR 346 Water Resources Engineering (3)
ENGR 347 Transportation Engineering (3)
ENGR 441 Structural Design II (4)
ENGR 443 Geotechnical Engineering (4)
GEOL 201 Foundations of Geology (4)

Electrical Engineering Minor

PHYS 212 General Physics II (4)
ENGR 215 Circuits I (4)
ENGR 361 Circuits II (4)

9 to 12 credits from the following:

ENGR 324 Control Systems (4)
ENGR 362 Analog Electronics (3)
ENGR 363 Embedded Systems Design (4)
ENGR 364 Electrical Devices (4)
ENGR 365 Linear Systems (3)
ENGR 367 Electromagnetics (3)
ENGR 421 Robotic Systems (4)
ENGR 422 Industrial Automation (4)
ENGR 461 Communication Systems (3)
ENGR 462 Power Electronics (4)

Environmental Engineering Minor

CHEM 105 General Chemistry I (4)
CHEM 106 General Chemistry II (4)
ENGR 353 Environmental Engineering (4)
ENGR 451 Water and Wastewater Management (3)
ENGR 453 Hazardous Waste and Air Pollution Management (3)

6 to 8 credits from the following:

BIOL 170 Cell and Animal Physiology (4)
CHEM 204 Organic Chemistry for Life Sciences (4)
CHEM 240 Environmental Chemistry (4)
ENGR 324 Control Systems (4)
ENGR 345 Fluid Mechanics (4)
ENGR 346 Water Resources Engineering (3)
ENGR 363 Embedded Systems Design (4)
GEOL 201 Foundations of Geology (4)
GIS 245 Introduction to Geographic Information Systems (3)

Mechanical Engineering Minor

ENGR 214 Materials Engineering (4)
ENGR 216 Mechanics I (3)
ENGR 371 Thermodynamics (3)

Robotics Engineering Minor

ENGR 323 Mechanics II (3)
ENGR 361 Circuits II (4)
ENGR 324 Control Systems (4)

4 credits from the following:

- ENGR 421 Robotic Systems (4)
- ENGR 422 Industrial Automation (4)
- ENGR 471 Heat Transfer Analysis & Design (4)
- ENGR 472 Mechanical Design (4)

9 to 12 credits from the following:

- ENGR 323 Mechanics II (3)
 - ENGR 324 Control Systems (4)
 - ENGR 373 Instrumentation & Measurement (3)
 - ENGR 376 Dynamics and Vibrations (4)
 - ENGR 377 Fluid Dynamics (4)
 - ENGR 378 Manufacturing Processes (3)
- (Any of ENGR 421, 422 471, 472 not meeting prior requirement)

- ENGR 421 Robotic Systems (4)
- ENGR 422 Industrial Automation (4)

6 to 8 credits from the following:

- ENGR 363 Embedded Systems Design (4)
- ENGR 373 Instrumentation & Measurement (3)
- ENGR 376 Dynamics and Vibrations (4)
- ENGR 378 Manufacturing Processes (3)
- ENGR 431 Biomedical Instrumentation (4)
- ENGR 472 Mechanical Design (4)

Bachelor of Science in Engineering (BSE), Biomedical Concentration + Pre-Med Requirements 8 Semester Plan

Italicized courses are not required for the degree, but recommended for MCAT preparation.

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
BIOL 170	Cell & Animal Physiology	4	CHEM 106	Chemistry II	4
CHEM 105	Chemistry I *	4	MATH 112	Calculus II	4
MATH 111	Calculus I *	4	PHYS 211	General Physics I	4
IDFY 101	First Year Seminar *	3	IDCR 151	Created and Called for Community*	3
		Total			Total
		17			17
Sophomore – Fall			Sophomore – Spring		
ENGR 213	Engineering Statistics	3	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 212	Programming for Engineers	2
CHEM 309	Organic Chemistry I	4	ENGR 215	Circuits I	4
MATH 211	Calculus III	4	CHEM 310	Organic Chemistry II	4
COMM 105	Fundamentals of Oral Communication*	3	MATH 270	Linear and Differential Methods	3
WELL 1xx	Wellness	1	PHIL or RELI	QuEST Philosophy or Religion*	3
		Total			Total
		18			17
Junior – Fall			Junior – Spring		
ENGR 301	Seminar I	1	ENGR 214	Materials Engineering	4
ENGR 415	Engineering Project	1	ENGR 331	Biomechanics	4
ENGR 431	Biomedical Instrumentation	4	ENGR 415	Engineering Project	1
<i>BIOL xxx</i>	<i>Pre-Health Biology Elective</i>	4	BIBL 2xx	QuEST Knowledge of the Bible*	3
CHEM 410	Biochemistry I	4	PSYC 101	Intro to Psychology	3
Varies	QuEST 1st semester language *	3	Varies	QuEST 2 nd semester language *	3
		Total			Total
		17			18
Senior – Fall			Senior – Spring		
ENGR 302	Seminar II	1	ENGR 332	BME Laboratory Techniques	3
ENGR 415	Engineering Project	2	ENGR 415	Engineering Project	2
ENGR 432	Design of Medical Devices	4	ENGR 421	Robotic Systems	4
Varies	QuEST Literature *	3	Varies	QuEST Christian Beliefs *	3
HIST	QuEST History *	3	Varies	QuEST 3rd Language/NW/CrossCultural*	3
Varies	QuEST - 3rd Language/NW/CC	2-3			
		Total			Total
		15-16			15
					Total Credits
					134

*QuEST (General Education) requirement

Bachelor of Science in Biomedical Engineering (BSBME) + Pre-Med Requirements

8 Semester Plan

Italicized courses are not required for the degree, but recommended for MCAT preparation.

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
ENGR 111	Intro to Engineering	2	ENGR 112	Engineering Design Tools	2
BIOL 170	Cell & Animal Physiology	4	MATH 112	Calculus II	4
CHEM 105	Chemistry I *	4	PHYS 211	General Physics I	4
MATH 111	Calculus I *	4	CHEM 106	Chemistry II	4
IDFY 101	First Year Seminar *	3	IDCR 151	Created and Called for Community*	3
Total		17	Total		17
Sophomore – Fall			Sophomore – Spring		
ENGR 213	Engineering Statistics	3	ENGR 211	Project Management	1
ENGR 216	Mechanics I	3	ENGR 212	Programming for Engineers	2
<i>CHEM 309</i>	<i>Organic Chemistry I</i>	4	ENGR 215	Circuits I	4
MATH 211	Calculus III	4	ENGR xxx	Engineering Elective	3
COMM 105	Fundamentals of Oral Communication*	3	<i>CHEM 310</i>	<i>Organic Chemistry II</i>	4
WELL 1xx	Wellness*	1	MATH 270	Linear and Differential Methods	3
Total		18	Total		17
Junior – Fall			Junior – Spring		
ENGR 301	Seminar I	1	ENGR 331	Biomechanics	4
ENGR xxx	Engineering Elective	3-4	ENGR 415	Engineering Project	1
ENGR 415	Engineering Project	1	ENGR xxx	Engineering Elective	4
ENGR 431	Biomedical Instrumentation	4	BIBL 2xx	QuEST Knowledge of the Bible*	3
<i>BIOL xxx</i>	<i>Pre-Health Biology Elective</i>	4	Varies	QuEST Literature *	3
<i>CHEM 410</i>	<i>Biochemistry I</i>	4	<i>PSYC 101</i>	<i>Intro to Psychology *</i>	3
Total		17-18	Total		18
Senior – Fall			Senior – Spring		
ENGR 214	Materials Engineering	4	ENGR 332	BME Laboratory Techniques	3
ENGR 302	Seminar II	1	ENGR 415	Engineering Project	2
ENGR 415	Engineering Project	2	ENGR xxx	Engineering Elective	4
ENGR 432	Design of Medical Devices	4	Varies	QuEST History 2 of 2*	3
ENGR xxx	Engineering Elective	4	Varies	QuEST Christian Beliefs *	3
Varies	QuEST 3rd Language/NW/CrossCultural*	2-3	Varies	QuEST Ethics/WV/Pluralism*	3
Total		17-18	Total		18
Summer Courses					
Varies	QuEST 1st semester language *	3			
Varies	QuEST 2 nd semester language *	3			
PHIL or RELI	QuEST Philosophy or Religion*	3			
Total		9	Total Credits		148

*QuEST (General Education) requirement

III. HUMAN DEVELOPMENT & FAMILY SCIENCE

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Guidelines for Mathematical Science Courses

Human Development and Family Science majors:

All students in the Human Development and Family Science major must take STAT 269, which is usually taken in the spring of the first year or the fall of the sophomore year. Students who have a weak background in algebra should consider taking MATH 101 or MATH 102 in their first year in preparation for STAT 269.

Family and Consumer Sciences Education Majors:

All students in this major must take two mathematical science courses: STAT 269 (Introductory Statistics) and one other MATH QuEST course by the conclusion of the sophomore year.

8-Semester Plan
Family and Consumer Sciences Education with K-12 Teaching Certification (B.S)
Odd year start

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall (odd yr)			First Year – Spring (even yr)		
COMM 105	Oral Communication*	3	HDFS 253	Community Service for Individuals & Families	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	1 st language*	3	ENGL 1xx	Literature meeting QuEST*	3
HDFS 099	Opportunities in HDFS (Rec'd, not required)	1	Varies	Mathematical Science QuEST+	3
HDFS 101	Foundations of Marriage and Family	3	Varies	2 nd Semester Language*	3
NUTR 110	Science and Nutrition*	3	NUTR 121	Food and Food Science	3
WELL 1xx	Wellness*	1	Submit the 3 required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414 –TEP Office		
TOTAL		17	TOTAL		18
Sophomore –Fall (even yr)			Sophomore – Spring (odd yr)		
Varies	3 rd Semester Language*	3	EDUC 346	Sociocultural Perspectives on Education	3
EDUC 203	Educational Psychology**	3	NUTR 331	Advanced Food Science and Technology	3
EDSP 207	Introduction to Special Education**	3	BIBL 2xx	Knowledge of the Bible*	3
TEP 210	Sophomore Field Experience**	0	HDFS 339	Dynamics of Family Interaction	3
HDFS 238	Textile Arts	3	HDFS 210	Child Development	3
HDFS 237	Interior Design	1	STAT 269	Introductory Statistics +	3
HDFS 245	Family Resource Management	3			
TOTAL		16	Submit Teacher Education Program application by 3/31 to B414-TEP Office		
TOTAL			TOTAL		18
Junior – Fall (odd yr)			Junior – Spring (even yr)		
EDSP 307	Inclusion Practices**	3	HDFS 244	Human Sexuality	3
HDFS 307	FCS Curriculum and Instruction I**	2	HDFS 345	Parenting	3
HDFS 272	Research Methods and Analysis in HDFS	3	Varies	Ethics* ^A (required for CFLE)	0-3
EDUC 331	Instructional Design and Assessment** [†]	3	THEO XXX	Christian Beliefs*	3
HDFS 451	Early Childhood Administration & Practice	2	PHIL/RELI xxx	Philosophy/Religion*	3
HDFS 452	Early Child Admin& Practice Experience	1	HDFS 311	Adolescent Development	3
TEP 310	Junior Field Experience**	0			
BUSA 115	Personal Money Management	1			
TOTAL		15	Submit Professional Semester application by 11/1 to B414-TEP Office		
TOTAL			TOTAL		15-18
Senior – Fall (even yr)			Senior – Spring (odd yr)		
EDUC 208	Teaching English Language Learners	3	EDUC 420	Professional Issues in Education* ^{††}	2
HIST xxx	History meeting QuEST*	3	TEP 407	Student Teaching Seminar* ^{††}	1
HDFS 355	Marital and Couple Relationships	3	TEP 410	Secondary Pre-Student Teaching Experience* ^{††}	0
HDFS 494	HDFS Seminar	3	TEP 435	Student Teaching* ^{††}	9
Varies	Non-Western Studies*	2-3			
TOTAL		17-18	TOTAL		12

*QuEST requirement

+ Students must complete 6 credits of math and 6 credits of English before the completion of the second academic year. The 6 credits of math are met through STAT 269 and one other MATH course. The six credits of English are completed via IDFY 101 and a literature course, from approved list. Writing intensive courses are IDFY 101 and IDCR 151.

**All courses marked with this symbol must be taken concurrently as indicated.

[†]Requires admission into the Teacher Education Program; 3.0 grade point average is required for admission into the Teaching Program (fall semester of the students' junior year) and also for admission to the Professional Semester (spring semester of the students' senior year) ^{††}Requires admission to the Professional Semester (students may not register for additional courses)

^AHDFS 340 Ethics and Families fulfills the QuEST Ethics requirement and is required for students who plan to pursue the CFLE credential through NCFR.

Family and Consumer Sciences Education with K-12 Teaching Certification (B.S)
8-semester plan for even year start

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall (even yr)			First Year – Spring (odd yr)		
IDFY 101	First Year Seminar*	3	COMM 105	Oral Communication*	3
Varies	1 st language*	3	IDCR 151	Created and Called for Community*	3
HDFS 099	Opportunities in HDFS (Rec'd, not required)	(1)	ENGL 1xx	Literature meeting QuEST*	3
HDFS 101	Foundations of Marriage and Family*	3	Varies	QuEST Mathematical Sciences +	3
HDFS 237	Interior Design	1	Varies	2 nd Semester Language*	3
HDFS 238	Textile Arts	3	NUTR 121	Food and Food Science	3
NUTR 110	Science and Nutrition*	3			
			Submit the 3 required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414 –TEP Office		
	TOTAL	16-17	TOTAL	18	
Sophomore –Fall (odd yr)			Sophomore – Spring (even yr)		
Varies	3 rd Semester Language*	3	BIBL 2xx	Knowledge of the Bible*	3
EDUC 203	Educational Psychology**	3	EDUC 346	Sociocultural Perspectives on Education	3
EDSP 207	Introduction to Special Education**	3	HDFS 253	Community Service for Individuals & Families	3
HDFS 244	Human Sexuality	3	HDFS 210	Child Development	3
HDFS 245	Family Resource Management	3	BUSA 115	Personal Money Management	1
STAT 269	Introductory Statistics+	3	WELL 1xx	Wellness*	1
TEP 210	Sophomore Field Experience**	0			
			Submit Teacher Education Program application by 3/31 to B414-TEP Office		
	TOTAL	18	TOTAL	14	
Junior – Fall (even yr)			Junior – Spring (odd yr)		
EDSP 307	Inclusion Practices**	3	HDFS 339	Dynamics of Family Interaction	3
EDUC 331	Instructional Design and Assessment***	3	HDFS 345	Parenting	3
HDFS 272	Research Methods and Analysis in HDFS	3	PHIL/RELI xxx	Philosophy/Religion*	3
HDFS 307	FCS Curriculum and Instruction I**	2	THEO xxx	Christian Beliefs*	3
HDFS 311	Adolescent Development	3	Varies	Ethics*^ (HDFS 340 required for CFLE)	3
TEP 310	Junior Field Experience**	0	NUTR 331	Advanced Food Science and Technology	3
			Submit Professional Semester application by 11/1 to B414-TEP Office		
	TOTAL	14	TOTAL	18	
Senior – Fall (odd yr)			Senior – Spring (even yr)		
EDUC 208	Teaching English Language Learners	3	TEP 407	Student Teaching Seminar***	1
HIST 1xx	History meeting QuEST*	3	TEP 410	Secondary Pre-Student Teaching Experience***	0
HDFS 451	Early Childhood Administration and Practice	2	TEP 435	Student Teaching***	9
HDFS 452	Early Childhood Administration & Practice Experience	1	EDUC 420	Professional Issues in Education***	2
HDFS 355	Marital and Couple Relationships	3			
HDFS 494	HDFS Seminar	3			
IDNW xxx	Nonwestern Studies* NUTR 210 preferred	2-3			
	TOTAL	17-18	TOTAL	15	

*QuEST requirement

+ Students must complete 6 credits of math and 6 credits of English before the completion of the second academic year. The 6 credits of math are met through STAT 269 and one other math course. The six credits of English are completed via IDFY 101 and a literature course, from approved list. Writing intensive courses are IDFY 101 and IDCR 151.

**All courses marked with this symbol must be taken concurrently as indicated.

'Requires admission into the Teacher Education Program; 3.0 grade point average is required for admission into the Teaching Program (fall semester of the students' junior year) and also for admission to the Professional Semester (spring semester of the students' senior year) "Requires admission to the Professional Semester (students may not register for additional courses)

^HDFS 340 Ethics and Families fulfills the QuEST Ethics requirement; students may select other courses meeting QuEST Ethics.

Human Development and Family Science (B.A)

8-semester plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
HDFS 101	Foundations of Marriage & Family	3	IDCR 151	Created and Called for Community*	3
HDFS 142	Intro to Interpersonal Relations	3	COMM 105	Fundamentals of Oral Communication*	3
HDFS 099	Opportunities in HDFS (rec'd, not required)	(1)	Varies	QUEST Art, Music, Theatre or Dance**	3
IDFY 101	First Year Seminar	3	Varies	2 nd Language meeting QuEST*	3
Varies	1 st language meeting QuEST*	3	STAT 269	Introductory Statistics	3
Varies	Lab Science* (BIOL 258 or NUTR 110 preferred)	3-4			
TOTAL			TOTAL		
15-17			15		
Sophomore –Fall			Sophomore – Spring		
HDFS 244	Human Sexuality	3	HDFS 253	Community Services for Individuals & Families	3
HDFS 245	Family Resource Management	3	HDFS 345	Parenting	3
HDFS 272	Research Methods and Analysis in HDFS	3	BIBL 2xx	Encountering the Bible/OT/NT*	3
HDFS 311	Adolescent Development	3	Varies	Literature meeting QuEST*	3
Varies	3 rd Language or Cross Cultural*	3	GERO 232 or GERO 231 or GERO 251	Sociology of Aging (spr. even yrs) OR Psychology of Aging (fall even yrs) OR Biology, Nutrition & Healthy Aging (spr. odd)	3
WELL 1xx	Wellness*	1			
TOTAL			TOTAL		
16			15		
Junior – Fall			Junior – Spring		
HDFS 210	Child Development	3	Varies	Science, Technology and World*	3
HDFS 355	Marital and Couple Relationships	3	HDFS 340	Ethics & Families	3
HDFS 339	Dynamics of Family Interaction	3	HDFS 312	Adult Development	3
HDFS 378 or HDFS 383 or HDFS 386	Latino Families OR Topics in Multicultural Family Studies OR Family Ethnicity and Human Services	3	HDFS 391 or GERO 391	Family Service Practicum OR Aging Practicum	1-3
HIST 1xx	History*	3	PHIL/RELI xxx	Philosophy/Religion Elective*	3
			Varies	Non-Western Studies*	2-3
TOTAL			TOTAL		
15			15-18		
Senior – Fall			Senior – Spring		
HDFS 442	Strategies of Family Life Education	3	THEO xxx	Christian Beliefs meeting QuEST*	3
HDFS 494	HDFS Seminar	3	INTE 394	Internship	4-12
	Electives	6-7		Electives OR Study Abroad	3-12
TOTAL			TOTAL		
12-18			12-18		

*QuEST requirement

III. HEALTH, NUTRITION and EXERCISE SCIENCE

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Guidelines for Mathematical Sciences Courses

Students in the Health, Nutrition, and Exercise Science Department should check the mathematics requirements specified for the major in the college catalog. Students in these majors are required to meet the QuEST Mathematical Science requirement but often have specific or additional mathematics courses specified in the major.

Students with Advanced Placement credit:

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should check [here](#) to find out how credit is awarded for your scores.

Verification Statement Policy for the Nutrition and Dietetics Major

In addition to meeting graduation requirements or academic verification in dietetics requirements (for students who already have a bachelor's degree), students who wish to apply to Academic Council for Education in Nutrition and Dietetics (ACEND)-accredited supervised practice programs or graduate programs or to take the Nutrition and Dietetics Technician, Registered Examination will also need to demonstrate that they are proficient in each aspect of the ACEND core knowledge for the Registered Dietitian Nutritionist (KRDN) in order to earn a Verification Statement.

A Verification Statement is an official document that signifies that an individual has completed the requirements of a nutrition and dietetics program accredited by the Accreditation Council in Education for Nutrition and Dietetics (ACEND). Verification Statements are required for dietetic internships and eligibility for the Nutrition and Dietetics Technicians, Registered exam and may be needed for graduate programs, state licensure, and potential employers.

To receive a Verification Statement, students must earn a 75% or higher on assignments tied to the ACEND core knowledge requirements (KRDNs) in major courses at the Mastery level. Assignments that address each ACEND KRDN are embedded in the nutrition and dietetics major courses.

The ACEND KRDNs are listed below:

Domain 1. Scientific and Evidence Base of Practice: Integration of scientific information and translation of research into practice.

KRDN 1.1: Demonstrate how to locate, interpret, evaluate and use professional literature to make ethical, evidence-based practice decisions.

KRDN 1.2: Select and use appropriate current information technologies to locate and apply evidence-based guidelines and protocols.

KRDN 1.3: Apply critical thinking skills.

Domain 2. Professional Practice Expectations: Beliefs, values, attitudes and behaviors for the nutrition and dietetics practitioner level of practice.

KRDN 2.1: Demonstrate effective and professional oral and written communication and documentation.

KRDN 2.2: Describe the governance of nutrition and dietetics practice, such as the Scope of Practice for the Registered Dietitian Nutritionist and the Code of Ethics for the Profession of Nutrition and Dietetics.

KRDN 2.3: Assess the impact of a public policy position on nutrition and dietetics practice.

KRDN 2.4: Discuss the impact of health care policy and different health care delivery systems on food and nutrition services.

KRDN 2.5: Identify and describe the work of interprofessional teams and the roles of others with whom the registered dietitian nutritionist collaborates.

KRDN 2.6: Demonstrate cultural humility, awareness of personal biases and an understanding of cultural differences as they contribute to diversity, equity and inclusion.

KRDN 2.7: Describe contributing factors to health inequity in nutrition and dietetics including structural bias, social inequities, health disparities and discrimination.

KRDN 2.8: Participate in a nutrition and dietetics professional organization and explain the significant role of the organization.

KRDN 2.9: Defend a position on issues impacting the nutrition and dietetics profession.

Domain 3. Clinical and Client Services: Development and delivery of information, products and services to individuals, groups and populations.

KRDN 3.1: Use the Nutrition Care Process and clinical workflow elements to assess nutritional parameters, diagnose nutrition related problems, determine appropriate nutrition interventions and develop plans to monitor the effectiveness of these interventions.

KRDN 3.2: Develop an educational session or program/educational strategy for a target population.

KRDN 3.3: Demonstrate counseling and education methods to facilitate behavior change and enhance wellness for diverse individuals and groups.

KRDN 3.4: Practice routine health screening assessments, including measuring blood pressure and conducting waived point-of-care laboratory testing (such as blood glucose or cholesterol).

KRDN 3.5: Describe concepts of nutritional genomics and how they relate to medical nutrition therapy, health and disease.

KRDN 3.6: Develop nutritionally sound meals, menus and meal plans that promote health and disease management and meet client's/patient's needs.

Domain 4. Practice Management and Use of Resources: Strategic application of principles of management and systems in the provision of services to individuals and organizations.

KRDN 4.1: Apply management theories to the development of programs or services.

KRDN 4.2: Evaluate a budget/financial management plan and interpret financial data.

KRDN 4.3: Demonstrate an understanding of the regulation system related to billing and coding, what services are reimbursable by third party payers, and how reimbursement may be obtained.

KRDN 4.4: Apply the principles of human resource management to different situations.

KRDN 4.5: Apply safety and sanitation principles related to food, personnel and consumers.

KRDN 4.6: Explain the processes involved in delivering quality food and nutrition services.

KRDN 4.7: Evaluate data to be used in decision-making for continuous quality improvement.

Domain 5. Leadership and Career Management: Skills, strengths, knowledge and experience relevant to leadership potential and professional growth for the nutrition and dietetics practitioner.

KRDN 5.1: Perform self-assessment that includes awareness in terms of learning and leadership styles and cultural orientation and develop goals for self-improvement.

KRDN 5.2: Identify and articulate one's skills, strengths, knowledge and experiences relevant to the position desired and career goals.

KRDN 5.3: Practice how to self-advocate for opportunities in a variety of settings (such as asking for needed support, presenting an elevator pitch).

KRDN 5.4: Practice resolving differences or dealing with conflict.

KRDN 5.5: Promote team involvement and recognize the skills of each member.

KRDN 5.6: Demonstrate an understanding of the importance and expectations of a professional in mentoring and precepting others.

Nutrition and Dietetics course syllabi list the ACEND core knowledge requirements (KRDNs) that are being assessed at an introductory, developmental, or mastery level. Students who do not meet a KRDN being assessed at the introductory or developmental level will be notified by their course instructor who will provide strategies for improved performance in the future. When a KRDN is being assessed at a mastery level within a course, students are expected to demonstrate proficient or advanced performance. In the event a student does not achieve proficient or advanced performance the student must remediate the assignment until they have achieved at least proficient performance. Remediation plans are at the discretion of the professor teaching the course. Remediating a KRDN will not change the grade for the assignment. The maximum amount of time allowed for completing program requirements after starting NUTR courses at the 300 level is 6 years.

Progression Requirements for the Nutrition and Dietetics Major

Progression requirements: To progress into NUTR 410, NUTR 411, and NUTR 425 students must have completed the following courses with no grades lower than a C- in each and with an average GPA ~~in them~~ of at least 2.50 in them (at least 2.75 if more than one of these courses is transferred to Messiah):

CHEM 105
CHEM 106,
CHEM 204 or CHEM 309 and CHEM 310
BIOL 185 or BIOL 170,
NUTR 121
NUTR 222.

Students who do not achieve the required minimum GPA will not be able to complete the Nutrition and Dietetics major, but will be eligible to complete the Food and Nutrition minor.

Course Repeat Policy for the Nutrition and Dietetics Major

One course from the list of courses used to determine the progression GPA may be repeated one time. An attempt at a course will include all letter grades as well as W. When extenuating circumstances arise (i.e. significant illness or death in the family), students may appeal this policy by submitting a written letter explaining the rationale for the exception to the DPD Director. If the appeal is denied, the decision may be appealed to the dean of the School of Science, Engineering and Health.

Applied Health Science (B.S.) with Pre-Athletic Training Concentration
5-Year Accelerated MSAT – 10 Semester Advising Plan

Course #	Course name	Credits	Course #	Course name	Credits
Fall – 1st semester total		16	Spring – 2nd semester total		17
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
varies	1 st semester language*	3	varies	2 nd semester foreign language*	3
PHIL/RELI	QuEST Philosophy or Religion*	3	HIST xxx	QuEST U.S. History*	3
APHS 170	Concepts of Conditioning*	2	COMM 105	Foundations of Oral Communication*	3
ATHT 102	Introduction to Athletic Training	1	ATHT 140	Prevention & Management of Injury	2
BIOL 170	Cell and Animal Physiology w/Lab*	4	PSYC 101	Introduction to Psychology*	3
Fall – 2nd semester total		17	Spring – 4th semester total		18-19
CHEM 103or105	Chemical Science (rec.)* or GenChem I*	4	Varies	QuEST Arts (ART, THEA, MUGE)*	3
BIOL 185	Human Anatomy & Physiology I w/lab	4	BIBL 20x	Knowledge of the Bible*	3
ATHT 235	Musculoskeletal Assessment	3	BIOL 186	Human Anatomy & Physiology II w/lab	4
APHS elective	GERO 251, PSYC 209, 210, HDFS 311, or 312	3	APHS 215	Chronic Disease and Exercise	3
Varies	3 rd semester language*	3	ATHT 203	Medical Terminology & Topics	2
			Varies	MATH 102 (recommended), 108, or 111	3-4
Fall – 5th semester total		17	Spring – 6th semester total		16-17
ENGL 1xx	QuEST Literature*	3	Varies	QuEST non-western*	2-3
ATHT 339	Musculoskeletal Interventions	3	Varies	QuEST Christian Beliefs*	3
APHS 301	Exercise Physiology w/Lab	4	APHS 271	Kinesiology	3
PHYS 201	Physics w/Lab	4	APHS 325	Exercise Nutrition and Metabolism	3
STAT 269	Introductory Statistics	3	ATHT 480	Athletic Training Senior Seminar	2
			Varies	Ethics/World Views/Pluralism	3
Summer between semester 6 and 7 total		3	Fall – 7th semester total		12
ATHT 507	Emergency Management	1	ATHT 524	Orthopedic Assessment I	3
ATHT 501	Professional Standards and Expectations	1	ATHT 518	Scientific Inquiry I	2
ATHT 505	Athletic Taping and Bracing	1	ATHT 522	Therapeutic Interventions	3
			ATHT 510	Athletic Training Clinical Experience I	4
Spring – 8th semester total		15	Summer between Semester 8 & 9 total		4
ATHT 520	Clinical Experience II	4			
ATHT 545	Gait Analysis and Pathomechanics	2	ATHT 555	Gross Human Anatomy	4
ATHT 530	Clinical Experience III	2			
ATHT 534	Orthopedic Assessment II	3			
ATHT 537	General Medical/Pharmacology Topics ^{A1}	2			
ATHT 528	Scientific Inquiry II	2			
Fall – 9th semester total		14	Spring – 10th semester total		12
ATHT 637	Behavioral Health ^{A1}	2	ATHT 647	Human Performance Training	2
ATHT 624	Clinical Care in Athletic Training	6	ATHT 635	Administration & Liability	2
ATHT 640	Athletic Training Clinical Experience IV	4	ATHT 657	Epidemiology & Public Health ^{A1}	2
ATHT 643	Nutrition for Recovery and Performance	2	ATHT 650	Clinical Experience VI Immersive ^{A2}	4
			ATHT 695	Graduate Seminar Capstone (online)	2

*QuEST requirement

^{A1} 8-week course in 1st half of semester

^{A2} 8-week course in 2nd half of semester

Applied Health Science (B.S.) with Exercise Science Concentration 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
APHS 170	Concepts of Conditioning*	2	APHS 225 or STAT 269	Research Methods and Statistics or Introductory Statistics	3
BIOL 185	Human Anatomy and Physiology I	4	BIOL 186	Human Anatomy and Physiology II	4
COMM 105	Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	Varies	2 nd language* (1 st or 2 nd year)	3
Varies	1 st language*	3	PSYC 101	Introduction to Psychology*	3
TOTAL		15	TOTAL		16
Sophomore – Fall			Sophomore – Spring		
APHS 215	Chronic Disease and Exercise	3	APHS 301	Exercise Physiology	4
CHEM 103 or 105	Chemical Science or General Chemistry I**	4	BIBL 20x	Knowledge of the Bible* (1 st or 2 nd year)	3
MATH/CIS/STAT	Mathematical Science* (1 st year)	3	BIOL 189	Genetics for Health Professionals	3
Varies	Literature* (1 st or 2 nd year)	3	HIST	History* (1 st or 2 nd year)	3
Varies	PSYC 209, HDFS 210, 311, 312 or GERO 251	3	Varies	Elective	3
TOTAL		16	TOTAL		16
Junior – Fall			Junior – Spring		
APHS 271	Kinesiology	3	Varies	APHS/ATHT/HPED elective	3
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3	Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3
NUTR 222	Principles of Nutrition	3	Varies	Elective	3
Varies	APHS/ATHT/HPED Elective	3	Varies	Elective	3
Varies	Art, Music or Theatre meeting QuEST	3	Varies	Elective	3
TOTAL		14-15	TOTAL		15
Senior – Fall			Senior – Spring		
IDS xxx	Ethics/Pluralism/World Views* (3 rd - 4 th yr)	3	APHS 325	Exercise Nutrition and Metabolism	3
INTE 391	Internship	1-3	APHS 412	Senior Seminar	3
Varies	Elective	3	RELI/PHIL	Religion/Philosophy* (1 st or 2 nd year)	3
Varies	Elective	3	Varies	Elective	3
THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3	Varies	Elective	3
TOTAL		13-15	TOTAL		15

*QuEST requirement

**Students interested in pursuing graduate school should take CHEM 105.

Applied Health Science (Pre-OT) (B.S) / Occupational Therapy MOT Suggested Course Sequencing

Course #	Course name	Credits	Course #	Course name	Credits
Fall – 1st semester total			Spring – 2nd semester total		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
varies	1 st semester language*	3	varies	2 nd semester language *	3
APHS 170	Concepts of Conditioning*	2	COMM 105	Foundations of Oral Communication*	3
BIOL 185	Human Anatomy & Physiology I w/lab	4	BIOL 186	Human Anatomy & Physiology II w/lab	4
PSYC 101	Introduction to Psychology	3	PSYC 209	Life Span Development	3
Fall – 2nd semester total			Spring – 4th semester total		
CHEM 103	Chemical Science *	4	BIBL 20x	Knowledge of the Bible*	3
varies	3 rd semester language/cross cultural*	3	HIST xxx	QuEST U.S. History*	3
APHS 215	Chronic Disease and Exercise	3	Varies	QuEST Arts (ART, THEA, MUGE)*	3
APHS 220	Health Promotion Management	3	ATHT 203	Medical Terminology and Topics	2
STAT 269	Introductory Statistics*	3	BIOL189	Genetics for Health Professions	3
			PSYC 319	Abnormal Psychology	3
Fall – 5th semester total			Spring – 6th semester total		
ENGL 1xx	QuEST Literature*	3	Varies	QuEST Christian Beliefs*	3
PHIL/RELI	QuEST Philosophy or Religion*	3	Varies	Ethics/World Views/Pluralism	3
Varies	QuEST non-western*	2-3	APHS xxx	APHS Elective	3
APHS 301	Exercise Physiology w/Lab	4	APHS 325	Exercise Nutrition and Metabolism	3
NUTR 222	Principles of Nutrition	3	APHS 412	Senior Seminar	3
Varies	Free elective	1	Varies	Free elective	3
Summer between semester 6 and 7 total			Spring – 8th semester total		
OCCU 501	Foundations of Occupational Therapy #	3			
OCCU 505	Applied Anatomy and Lab #	3			
OCCU 526	Analysis of Occupation #	3			
Fall – 7th semester total			Spring – 10th semester total		
OCCU 524	Theoretical Perspectives in OT #	3	OCCU 510	Evidence-Based Inquiry	3
OCCU 535	OT Process: Psychosocial Practice & Lab #	4	OCCU 544	Therapeutic Techniques	3
OCCU 553	Common Conditions in OT Practice#	3	OCCU 565	OT Process: Pediatric Practice & Lab	4
OCCU 555	Neurological Conditions OT Practice & L #	4	OCCU 562	Level I Fieldwork: Pediatric Practice	1
			OCCU 626	Advocacy, Policy and Practice Trends	3
Summer between Semester 8 & 9 total			Spring – 10th semester total		
OCCU 530	Research Methods and Design	3			
OCCU 573	Health Promotion OT: Community Inter	2			
OCCU 602	Level 1 Fieldwork Adult Practice	1			
OCCU 605	OT Process: Adult Practice & Lab	4			
OCCU 615	Adaptations & Assistive Technology & Lab	3			
Fall – 9th semester total			Spring – 10th semester total		
OCCU 572	Level I Fieldwork: Community Intervent	2	OCCU 509	OT Process and Practice	2
OCCU 620	Global, Cultural & Spiritual Practices in OT	2	OCCU 636	Enrichment Seminar	2
OCCU 623	Administration, Management & Leadership	3	OCCU 622	Fieldwork Level II-A	6
OCCU 625	OT Process: Older Adult Practice & Lab	4			
OCCU 630	Research Seminar	3			
Summer after semester 10 total			Spring – 10th semester total		
OCCU 632	Fieldwork Level II-B	6			

*QuEST requirement; # Graduate course fulfilling undergraduate requirements (total of 23 credits)

Major requirements inclusive of Pre-OT concentration: 53 credits. QuEST requirements: 41-42 credits. Free electives 6-5.

Total of UG requirements: 123 credits. Unique credits towards graduate degree: 55 credits. Total credits: 178.

Applied Health Science (B.S.) with Pre-Physical Therapy Concentration 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
APHS 170	Concepts of Conditioning	2	APHS 225 or STAT 269	Research Methods and Statistics or Introductory Statistics	3
BIOL 170	Cell and Animal Physiology (4)	4	COMM 105	Oral Communication*	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
CHEM 105	General Chemistry I	4	CHEM 106	General Chemistry II	4
Varies	1 st language*	3	Varies	2 nd language* (1 st or 2 nd year)	3
TOTAL		16	TOTAL		16
Sophomore – Fall			Sophomore – Spring		
MATH 1xxx	Math 102, 108 or 111	3-4	PHYS 202	Physics II	4
Varies	APHS/ATED/HPED elective*	3	BIBL 20x	Knowledge of the Bible* (1 st or 2 nd year)	3
PSYC 101	Introduction to Psychology	3	APHS 215	Chronic Disease and Exercise	3
ENGL xxx	Literature* (1 st or 2 nd year)	3	HIST 1xx	History* (1 st or 2 nd year)	3
PHYS 201	Physics I	4	IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	3
TOTAL		16-17	TOTAL		16
Junior – Fall			Junior – Spring		
APHS 271	Kinesiology	3	Varies	APHS/ ATHT/HPED elective **	3
BIOL 265	Microbiology	4	Varies	APHS/ ATHT/HPED elective**	3
Varies	PSYC 209, HDFS 210, 311, 312 or GERO 251	3	APHS 301	Exercise Physiology	4
Varies	Art, Music or Theatre* (1 st or 2 nd year)	3	Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3
Varies	Elective	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
TOTAL		16	TOTAL		16
Senior – Fall			Senior – Spring		
IDS xxx	Ethics/Pluralism/World Views* (3 rd - 4 th yr)	3	APHS 412	Senior Seminar	3
BIOL 460	Physiology	4	BIOL 465	Gross Anatomy	4
Varies	APHS/ ATHT/HPED elective**	3	RELI/PHIL	Religion/Philosophy* (1 st or 2 nd year)	3
Varies	APHS/ ATHT/HPED elective**	3	APHS 325	Exercise Nutrition & Metabolism	3
TOTAL		13	TOTAL		13

*QuEST requirement

Total Credits: 123

**Students must take at least 9 credits of department electives (specific APHS/HPED or ATHT courses as listed in the major requirements course of study). These courses range from 2-4 credits. These courses should be chosen in consultation with your academic advisor.

Note: BIOL 265 (Offered every fall) and ATHT 203 are required for OT/PT Messiah University Programs

Applied Health Science (B.S.) Pre-Professional Concentration 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
BIOL 170	Cell and Animal Physiology (4)	4	COMM 105	Oral Communication*	3
APHS 170	Concepts of Conditioning	2	CHEM 106	General Chemistry II	4
CHEM 105	General Chemistry I	4	APHS 225 or STAT 269	Research Methods and Statistics or Introductory Statistics	3
Varies	1 st language*	3	Varies	2 nd language* (1 st or 2 nd year)	3
TOTAL		16	TOTAL		16
Sophomore – Fall			Sophomore – Spring		
APHS 215	Chronic Disease and Exercise	3	BIBL 20x	Knowledge of the Bible* (2 nd or 3 rd year)	3
BIOL 265	Microbiology	4	HIST 1xx	History* (1 st or 2 nd year)	3
CHEM 204 or CHEM 309	Introduction to Organic Chemistry or Organic Chemistry I	4	APHS 301	Exercise Physiology	4
MATH xxx	MATH 102, 108 or 111 Calculus*	3-4	Varies	Non-Western Studies* (2 nd or 3 rd year)	3
			PSYC 101	Introduction to Psychology	3
TOTAL		14-15	TOTAL		17
Junior – Fall			Junior – Spring		
APHS 271	Kinesiology	3	APHS 325	Exercise Nutrition and Metabolism	3
Varies	PSYC 209, HDFS 210, 311, 312 or GERO 251	3	PHYS 202	Physics	4
Varies xxx	Art, Music or Theatre* (1 st or 2 nd year)	3	Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3
ENGL xxx	Literature* (1 st or 2 nd year)	3	Varies	APHS/ ATHT/HPED elective	3
PHYS 201	Physics	4	RELI/PHIL	Religion/Philosophy* (1 st or 2 nd year)	3
TOTAL		16	TOTAL		16
Senior – Fall			Senior – Spring		
IDS xxx	Ethics/Pluralism/World Views* (3 rd - 4 th yr)	3	APHS 412	Senior Seminar	3
THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3	Varies	Electives or Internship	3
Varies	APHS/ ATHT/HPED elective	3	Varies	Electives	3
BIOL 465	Gross Anatomy	4	BIOL 460	Physiology	4
TOTAL		16	TOTAL		13

*QuEST requirement
123 credits required to graduate

**Students interested in pursuing medical school should work closely with the Pre-Health advisor and take CHEM 310 Organic Chemistry II (4). In addition, CHEM 410 Biochemistry I (4) is strongly recommended. Students considering physician assistant programs should work closely with their advisor and the Office of Pre-Health Professions. The pre-requisites for schools vary so students may need to consider additional courses (e.g. BIOL 260, Genetics, CHEM XXX, Organic Chemistry II).

**Health & Physical Education with K-12 Teacher Certification (B.A.)
8 Semester Plan for starting Odd Fall 2023-2024**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 10x	First Year Seminar*	3	COMM 105	Oral Communication*	3
HPED 201	Foundations of P.E.	1	IDCR 151	Created and Called for Community*	3
HIST 141 or 142	QuEST U.S. History*	3	Varies	QuEST MATH/CIS/STAT *	3
ENGL 122-176	QuEST Literature*	3	Varies	QuEST Second Semester of Language*	3
Varies	QuEST MATH/CIS/STAT *	3	WELL 127	Aquatics	1
Varies	QuEST 1 st Semester of Language*	3	WELL 1xx	Wellness course option	1
			ATHT 140	Prevention and Management of Injury	2
	TOTAL	16		TOTAL	16
<i>Take PAPA Exam unless exempt by SAT/ACT Score</i>			<i>March 31st – Submit clearances to TEP Office in Boyer 414</i>		
Sophomore – Fall			Sophomore – Spring		
BIOL158	Human Biology I	4	EDUC 203†	Educational Psychology*	3
HDFS 210	Child Development	3	EDSP 207†	Intro. to Special Education	3
Varies	QuEST 3 rd Semester of Language*	3	TEP 210†	Sophomore Field Experience (T&R)	0
APHS 170	Concepts of Conditioning	2	HPED 224	Personal and Community Health	3
APHS 220	Health Promotion Management	3	EDUC 346	Sociocultural Perspectives on Education	3
WELL 1xx	Wellness course option	1	APHS 201	Principles of Exercise Science* (STW)	3
WELL 1xx	Wellness course option	1			
	TOTAL	17		TOTAL	15
<i>Apply to TEP in January. Student MUST pass the PAPA exam by August 15 prior to their Junior year (non-traditional students: Fall in which they enroll in TEP 310. March 1st-TEP Application Submitted online. Math, CIS, FYS, and Literature must be completed or in process (one of these) in order to enroll in 300 level courses</i>					
Junior – Fall			Junior – Spring		
TEP 310†	Field Experience (Must meet TEP admission requirements)	0	EDUC 208	Instr & Assessment w/Eng Lang	3
EDSP 307†	Inclusion Practices	3	APHS 271	Kinesiology	3
EDUC 331†	Instr Design and Assessment for Middle and Secondary Grades	3	HPED 423	Principles of Admin.	3
HPED 229	Motor Learning	3	WELL xxx	Wellness Course Option	1
HPED 329	Sport in Society*	3	HPED 309	Physical Education Instruction Elem	3
Varies	QuEST Philosophy or Religion*	3	HPED 332	Teaching Adapted PE	1
WELL 1xx	Wellness course option	1	WELL 114	Dance and Rhythm Activities	1
			BIBL 20x	QuEST Encountering the Bible	3
	<i>Nov 1st – Application for Professional Semester due</i>				
	TOTAL	16		TOTAL	4548
Senior – Fall			Senior – Spring		
HPED 312	P.E. Instr. Secondary	3	EDUC 420†	Prof Issues in Educ	2
Varies	QuEST Arts/Music/Theater*	3	TEP 431†	Student Teaching HPE – K-12	9
THEO xxx	QuEST Christian Beliefs*	3	TEP 411†	Pre-student Teaching Exp.: HPE	0
Varies	QuEST Non-Western Studies*	2-3	TEP 407†	Student Teaching Seminar	1
HDFS 311	Adolescent Development	3			
	First Aid/CPR Competency	0			
	<i>Take Praxis fall or early spring</i>				
Total		14-15		TOTAL	12

*QuEST requirement; †Courses must be taken concurrently

NOTE: If a student fails to complete the PAPA requirement by August 15 prior to their junior year, that student will be required to either 1) change majors or 2) stay at Messiah an additional year to complete the curriculum as it is designed.

**Health & Physical Education with K-12 Teacher Certification (B.A.)
8 Semester Plan for starting Even Fall 2024-2025**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 10x	First Year Seminar*	3	COMM 105	Oral Communication*	3
HPED 201	Foundations of P.E.	1	IDCR 151	Created and Called for Community*	3
HIST 141 or 142	QuEST U.S. History*	3	Varies	QuEST MATH/CIS/STAT *	3
ENGL 122-176	QuEST Literature*	3	Varies	QuEST Second Semester of Language*	3
Varies	QuEST MATH/CIS/STAT *	3	WELL 127	Aquatics	1
Varies	QuEST 1 st Semester of Language*	3	WELL 1xx	Wellness course option	1
			ATHT 140	Prevention and Management of Injury	2
	TOTAL	16		TOTAL	16
<i>Take PAPA Exam unless exempt by SAT/ACT Score</i>			<i>March 31st – Submit clearances to TEP Office in Boyer 414</i>		
Sophomore – Fall			Sophomore – Spring		
BIOL158	Human Biology*	4	EDUC 203†	Educational Psychology*	3
HDFS 210	Child Development	3	EDSP 207†	Intro. to Special Education	3
			TEP 210†	Sophomore Field Experience (T&R)	0
Varies	QuEST 3 rd Semester of Language*	3	HPED 224	Personal and Community Health	3
APHS 170	Concepts of Conditioning	2	EDUC 346	Sociocultural Perspectives on Education	3
APHS 220	Health Promotion Management	3	HPED 309+	Physical Education Instruction Elem	3
WELL 1xx	Wellness course option	1	WELL 114	Dance and Rhythm Activities	1
WELL 1xx	Wellness course option	1			
	TOTAL	17		TOTAL	16
<i>Apply to TEP in January. Student MUST pass the PAPA exam by August 15 prior to their Junior year (non-traditional students: Fall in which they enroll in TEP 310. March 1st-TEP Application Submitted online. Math, CIS, FYS, and Literature must be completed or in process (one of these) in order to enroll in 300 level courses</i>					
Junior – Fall			Junior – Spring		
EDUC 208	Instr * Assessment w/Eng Lang	3	TEP 310+	Field Experience (must meet TEP admission requirements)	0
BIBL 20x	QuEST Encountering the Bible*	3	EDSP 307+	Inclusion Practices	3
			EDUC 331+	Instr Design and Assessment for Middle and Secondary Grades	3
HPED 229	Motor Learning	3	APHS 201	Principles of Exercise Science *(STW)	3
HPED 329	Sport in Society*	3	APHS 271	Kinesiology	3
HPED 312	P.E. Instru. Secondary	3	HPED 332	Teaching Adapted PE	1
WELL 1xx	Wellness course option	1	HPED 423	Principles of Administration	3
			WELL xxx	Wellness Course Option	1
	<i>Nov 1st – Application for Professional Semester due</i>				
	TOTAL	16		TOTAL	15
Senior – Fall			Senior – Spring		
Varies	QuEST Philosophy or Religion	3	EDUC 420†	Prof Issues in Educ	2
Varies	QuEST Arts/Music/Theater*	3	TEP 431†	Student Teaching HPE – K-12	9
THEO xxx	QuEST Christian Beliefs*	3	TEP 411†	Pre-student Teaching Exp.: HPE	0
Varies	QuEST Non-Western Studies*	2-3	TEP 407†	Student Teaching Seminar	1
HDFS 311	Adolescent Development	3			
	First Aid/CPR Competency	0			
	<i>Take Praxis fall or early spring</i>				
Total		14-15		TOTAL	12

*QuEST requirement; †Courses must be taken concurrently

NOTE: If a student fails to complete the PAPA requirement by August 15 prior to their junior year, that student will be required to either 1) change majors or 2) stay at Messiah an additional year to complete the curriculum as it is designed.

Nutrition and Dietetics (B.S.) (for students graduating May 2024)
8 Semester Plan

Graduating May 2024, Rev. 5/2022

Course #	Course name	Credits	Course #	Course name	Credits
Semester 1 – Fall			Semester 2 – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called*	3
Varies	1st language* (1st or 2nd year)	3	Varies	2nd language* (1st or 2nd year)	3
CHEM 105	General Chemistry I	4	CHEM 106	General Chemistry II	4
COMM 105	Foundations of Oral Communication*	3	NUTR 121	Food and Food Science	3
NUTR 102	Introduction to Nutrition and Dietetics	1	NUTR 215	ServSafe Manager	1
			ATHT 203	Medical Terminology and Topics	2
TOTAL		14	TOTAL		16
Semester 3 – Fall			Semester 4 – Spring		
APHS 170	Concepts of Conditioning*	2	Varies	Third Language or Cross Cultural*	3
BIOL 185	Anatomy and Physiology I	4	Bible 201	Knowledge of the Bible*	3
BUSA 120	Principles of Management	3	BIOL 186	Anatomy and Physiology II	4
NUTR 222	Principles of Nutrition	3	BIOL189	Genetics	3
PSYC 101	Introduction to Psychology*	3	STAT 269	Introduction to Statistics	3
TOTAL		15	TOTAL		16
Semester 5 – Fall			Semester 6 – Spring		
BIOL 265	Microbiology	4	THEO 2xx	Christian Beliefs* (2nd or 3rd year)	3
CHEM 204	Introduction to Organic Chemistry	4	NUTR 411	Medical Nutrition Therapy I	3
ENG XXX	Literature*	3	NUTR 425	Nutrient Metabolism & Research Methods I	4
NUTR 322	Nutrition Through the Life Cycle	3	NUTR 333	Food Technology	2
HIST XXX	History*	3	Varies XXX	Free Elective	3
TOTAL		17	TOTAL		15
Semester 7 – Fall			Semester 8 – Spring (Grad)		
NUTR 412	Medical Nutrition Therapy II	3	Varies	Non-Western	2-3
NUTR 426	Nutrient Metabolism & Research Methods II	3	Varies	Art, Music, Theatre*	3
NUTR 410	Nutrition Education and Counseling	3	IDS XXX	Ethics/Pluralism/World Views*	3
NUTR 415	Food Service	3	RELI/PHIL	Religion/Philosophy*	3
NUTR 493	Senior Seminar in Nutrition and Dietetics	1	Varies XXX	Free Elective	3
Varies XXX	Free Elective	2-3	Varies XXX	Free Elective	3
TOTAL		15-16	Total		17-18

*QuEST requirement,

** Students may substitute BIOL 170 and 460 for BIOL 185 and 186 and CHEM 309 and 310 for CHEM 204

**Nutrition and Dietetics (B.S.) (for students graduating May 2025)
8 Semester Plan**

Graduating May 2025, Rev. 5/2022

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
CHEM 105	General Chemistry I	4	CHEM 106	General Chemistry II	4
COMM 105	Oral Communication*	3	Varies	2 nd language* (1 st or 2 nd year)	3
Varies	1 st language*	3	NUTR 121	Food and Food Science	3
NUTR 102	Introduction to Nutrition and Dietetics	1	PSYC 101	Introduction to Psychology *	3
APHS 170	Concepts of Conditioning	2	NUTR 215	ServSafe Manager	1
		TOTAL			16
			TOTAL		
			17		
Sophomore – Fall			Sophomore – Spring		
BIOL 185	Anatomy and Physiology**	4	BIBL 20x	Knowledge of the Bible* (2 nd -4 th year)	3
CHEM 204	Introduction to Organic Chemistry**	4	BIOL 186	Anatomy and Physiology II**	4
BUSA 120	Principles of Management	3	STAT 269	Introduction to Statistics*	3
NUTR 222	Principles of Nutrition	3	Varies	History meeting QuEST*	3
			Varies	Literature meeting QuEST* (1 st or 2 nd year)	3
		TOTAL			14
			TOTAL		
			16		
Junior – Fall			Junior – Spring		
BIOL 265	Microbiology	4	NUTR 331	Advanced Food Science & Technology	3
Varies	Non-Western Studies* (2 nd or 3 rd year)	3	NUTR 352	Community Nutrition	3
PHIL/RELI xxx	Philosophy/Religion* (1 st or 2 nd year)	3	NUTR 322	Nutrition through the Life Cycle	3
NUTR 415	Food Service	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
Varies	Elective	3	Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3
		TOTAL			16
			TOTAL		
			15		
Senior – Fall			Senior – Spring		
Varies	Ethics/Pluralism/World Views* (3 rd /4 th yr)	3	NUTR 412	Medical Nutrition Therapy II	3
NUTR 410	Nutrition Education and Counseling	3	NUTR 426	Nutrient Metabolism & Research Methods II	3
NUTR 411	Medical Nutrition Therapy I	3	Varies	Elective	3
NUTR 425	Nutrient Metabolism & Research Methods I	4	Varies	Elective	3
NUTR 493	Senior Seminar	1	Varies	Arts* (1 st or 2 nd year)	3
		TOTAL			14
			TOTAL		
			15		

*QuEST requirement

**Students may substitute BIOL 170 and 460 for BIOL 185 and 186 and CHEM 309 and 310 for CHEM 204

**Sport Management (B.A.)
8 Semester Plan for starting Even Fall 2024 - 2025**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
COMM 105	Oral Communication*	3	Varies	1 st language*	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
MATH/CIS/STAT	Mathematical Science* (1 st year)	3	HIST 1xx	History* (1 st or 2 nd year)	3
PSYC 101	Introduction to Psychology*	3	Varies	Art/Music/Theatre* (1 st or 2 nd year)	3
SPMT 110	Sport Management Careers and Content	1	APHS 170	Concepts of Conditioning*	2
BUSA 120	Principles of Management	3	CIS 190	Strategic Use of the Technology	3
		TOTAL			16
					TOTAL
					17
Sophomore – Fall			Sophomore – Spring		
Varies	2 nd language* (1 st or 2 nd year)	3	SPMT 211	Economics and Governance in Sports	3
SPMT 210	Ethics and Law in Sport Management	3	ACCT 242	Managerial Accounting	3
ACCT 141	Financial Accounting	3	MRKT 130	Marketing Principles	3
BIOL 158	Human Biology*	4	IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3
Varies	Elective	3	Varies	Elective	3
		TOTAL			16
					TOTAL
					14-15
Junior – Fall			Junior – Spring		
BIBL 20X	Knowledge of the Bible* (1 st or 2 nd year)	3	Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3
THEO 2XX	Christian Beliefs* (2 nd or 3 rd year)	3	APHS 201	Principles of Exercise Science	3
SPMT 313	Sport Facility and Event Management	3	HPED 329	Sport in Society	3
INTE 391	Internship	3	SPMT 314	Sponsorship and Marketing in Sport Manage	3
Varies	Elective	3	SPMT 410	Topics in Sport Management	2
		TOTAL			15
					TOTAL
					14
Senior – Fall			Senior – Spring		
PHIL/RELI xxx	Philosophy/Religion* (1 st or 2 nd year)	3	SPMT 411	Senior Seminar	3
ENGL 1xx	Literature* (1 st or 2 nd year)	3	INTE 391	Internship	3
BUSA 381	Business Law I	3	HPED 423	Principles of Administration	3
Varies	Electives	4	Varies	Elective	3
INTE 391	Internship	3	Varies	Elective	3
		TOTAL			16
					TOTAL
					15

*QuEST requirement

*Note: Many Sport Management courses are offered alternate years. Consult your academic advisor.

**Sport Management (B.A.)
8 Semester Plan for starting Odd Fall 2023 - 2024**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
COMM 105	Oral Communication*	3	Varies	1 st language*	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
MATH/CIS/STAT	Mathematical Science* (1 st year)	3	HIST xxx	History* (1 st or 2 nd year)	3
PSYC 101	Introduction to Psychology*	3	Varies	Art/Music/Theatre* (1 st or 2 nd year)	3
SPMT 110	Sport Management Careers and Content	1	APHS 170	Concepts of Conditioning	2
BUSA 120	Principles of Management	3	CIS 190	Strategic Use of the Technology	3
TOTAL		16	TOTAL		17
Sophomore – Fall			Sophomore – Spring		
Varies	2 nd language* (1 st or 2 nd year)	3	SPMT 314	Sponsorship and Marketing in Sport Manage	3
SPMT 313	Sport Facility and Event Management	3	ACCT 242	Managerial Accounting	3
ACCT 141	Financial Accounting	3	MRKT 130	Marketing Principles	3
BIOL 158	Human Biology*	4	IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3
Varies	Elective	3	Varies	Elective	3
TOTAL		16	TOTAL		14-15
Junior – Fall			Junior – Spring		
BIBL 20X	Knowledge of the Bible* (1 st or 2 nd year)	3	Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3
THEO 2XX	Christian Beliefs* (2 nd or 3 rd year)	3	APHS 201	Principles of Exercise Science	3
SPMT 210	Ethics and Law in Sport Management	3	HPED 329	Sport in Society	3
INTE 391	Internship	3	SPMT 211	Economics and Governance in Sports	3
Varies	Elective	3	HPED 423	Principles of Administration	3
TOTAL		15	TOTAL		15
Senior – Fall			Senior – Spring		
PHIL/RELI xxx	Philosophy/Religion* (1 st or 2 nd year)	3	SPMT 410	Topics in Sport Management	2
ENGL xxx	Literature* (1 st or 2 nd year)	3	SPMT 411	Senior Seminar	3
BUSA 381	Business Law I	3	INTE 391	Internship	6
Varies	Electives	4	Varies	Elective	6
TOTAL		13	TOTAL		17

*QuEST requirement

*Note: Many Sport Management courses are offered alternate years. Consult your academic advisor.

III. HISTORY, POLITICS, and INTERNATIONAL RELATIONS

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Guidelines for Mathematical Sciences Courses

History and Public History majors. There is no specific math course required for the History major. Familiarity with digital technology is increasingly important for students in the humanities with new developments in the digital humanities majors. Students interested in pursuing digital applications in the humanities should consider taking courses in CIS. The introductory CIS courses to consider include:

CIS 171 Problem Solving with Computers focuses on using computers and software to create reports, images, spreadsheets, web pages, and databases.

CIS 180 Introduction to Computer and Information Science covers both technical and social aspects of computing, including privacy, security, reliability, and ethics.

CIS 181 Introduction to Computer Programming in Python is the introductory programming course for both majors and non-majors.

We recommend students with a History or Public History major enroll in MATH 101, MATH 102, MATH 107, or CIS 171 in their first year, unless they have had a pre-calculus course; then they should consider MATH 108. Statistical literacy is another important area of mathematical study, and STAT 269 introduces statistical methods and meets the QuEST requirement.

Politics and International Relations majors. Students interested in pursuing digital applications in the humanities should consider taking courses in CIS (listed above). For students interested in math, we strongly recommend students enroll in STAT 269. Students may alternately students enroll in MATH 101, MATH 102, or MATH 107 in their first year, unless they have had a pre-calculus course; then they should consider MATH 108.

Students with Advanced Placement credit:

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should go to the math

department's website (www.messiah.edu/departments/mathsci/courses/ap_credit.html) to find out how credit is awarded for your scores.

8 semester plan History (B.A.)

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar *	3	IDCR 151	Created and Called for Community *	3
LANG	1 st semester foreign language *	3	LANG	2 nd semester foreign language *	3
ENG / SPAN	Literature *	3	Varies	Laboratory Science *	3-4
COMM 105	Foundations of Oral Communication *	3	HIST 202	Historical Methods	3
HIST 201	Introduction to History	1	HIST 203	Effective Historical Writing	1
HIST 2xx	1 st 200-level course ¹	3	HIST 2xx	2 nd 200-level course ¹	3
Total		16	Total		16-17
Sophomore – Fall			Sophomore – Spring		
LANG	3 rd semester foreign language *	3	Varies	Arts *	3
Varies	Mathematical Science *	3	BIBL 2xx	Bible *	3
PHIL / REL	Phil/Religion *	3	WELL 1xx	Wellness Activity *	1
HIST 2xx	3 rd 200-level course ¹	3	HIST 2xx	4 th 200-level course ¹	3
Varies	Free elective	3	HIST 3xx	First 300-level Seminar	3
Total		15	Total		16
Junior – Fall			Junior – Spring		
THEO 2xx	Christian Beliefs *	3	IDPL	Ethics, World Views, and Pluralism * ²	3
HIST 3xx	2 nd 300-level seminar	3		Experiential learning (encouraged here)	0-1
HIST 3xx	3 rd 300-level seminar	3	HIST 3xx	4 th 300-level seminar	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
Total		15	Total		15-16
Senior – Fall			Senior – Spring		
IDST 3xx	Science, Tech & the World *	3	Hist 3xx	6 th 300-level seminar	3
HIST 401	Historiography: History & Theory of Historical Writing	3	Varies	Free elective	3
HIST 3xx	5 th 300-level seminar	3	Varies	Free elective	3
Varies	Free elective	3	Varies	Free elective	3
Varies	Free elective	3	Varies	Free elective	3
Total		15	Total		15

* QuEST / General Education requirement

1. Students may fulfill QuEST non-western studies requirement by taking HIST 271, 272, 273, or 274.
2. Students may fulfill QuEST ethics and pluralism requirement by taking HIST 345, 352, 355, or 392.

History (B.A.) with Secondary Social Studies Teaching Certification

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
HIST 201	Introduction to History	1	HIST 202	Historical Methods	3
HIST 2xx	1 st 200-level course	3	HIST 203	Effective Historical Writing	1
IDFY 101	First Year Seminar *	3	HIST 2xx	2 nd 200-level course	3
COMM 105	Foundations of Oral Communication *	3	varies	1 st Mathematical Science *	3-4
LANG	1 st semester foreign language *	3	IDCR 151	Created and Called for Community *	3
ENGL 1xx	ENGL 122 to ENGL 175 *	3	LANG	2 nd semester foreign language *	3
			WELL 1xx	Wellness *	1
TOTAL			TOTAL		
16			17-18		
<i>Submit three required security clearances (FBI, Child Abuse, Criminal) by 3/31. Complete Basic Skills requirement (PAPA or ETS CORE), if not exempt based on SAT/ACT scores, by end of summer after first year.</i>					
Sophomore – Fall			Sophomore – Spring		
HIST 2xx	3 rd 200-level course	3	HIST 2xx	4 th 200-level course	3
Varies	2 nd Mathematical Science *	3	HIST 3xx	1 st 300-level seminar	3
EDUC 203	Educational Psychology +	3	HIST 3xx	2 nd 300-level seminar	3
EDSP 207	Introduction to Special Education +	3	ECON 110/120	Principles of Macro OR Microeconomics	3
TEP 210	Sophomore Field Experience +	0	HDFS 311	Adolescent Develop (EDUC 203 prereq)	3
LANG	3 rd semester language *	3	BIBL 20x	Bible *	3
TOTAL			TOTAL		
15			18		
<i>These courses also offered in spring</i>			<i>Submit TEP application electronically by 3/31. Clearances completed last year must be <1 yr old.</i>		
Junior – Fall			Junior – Spring		
HIST 3xx	3 rd 300-level seminar	3	HIST 3xx	4 th 300-level seminar	3
HIST 390 (or HIST 3xx)	Teaching History and Social Studies ¹	3	Varies	Laboratory Science *	3
EDUC 208	Teaching English Language Learners +	3	Varies	Philosophy or Religion *	3
EDUC 331	Instructional Design and Assessment +	3	GEOG 103	Regional Geography of the World ²	3
EDSP 307	Inclusion Practice +	3	POLI 113	American Government	3
TEP 310	Junior Field Experience +	0	EDUC 346	Sociocultural Perspectives in Educ ³	3
TOTAL			TOTAL		
15			18		
<i>Submit Professional Semester application electronically by 1/15.</i>					
Senior – Fall			Senior – Spring		
HIST 401	Historiography: History & Theory of Historical Writing	3	TEP 407	Student Teaching Seminar +	1
HIST 3xx (or HIST 390)	5 th 300-level history	3	EDUC 420	Professional Issues in Education +	2
Varies	Science, Tech, & World *	3	TEP 410	Secondary Pre-Student Teaching Exp.+	0
Varies	Arts *	3	TEP 435/439	Student Teaching: Secondary +	9
THEO 2xx	Christian Beliefs *	3			
<i>Take Praxis II exam summer prior to senior year and up to six weeks prior to graduation date.</i>			<i>Apply for PA certification on or after May 1.</i>		
TOTAL			TOTAL		
15			12		
No other courses may be taken in the Professional Semester.					

* QuEST / General Education requirement + Courses are co-requisite and should be taken during the same semester:

1. HIST 390 is offered every other year in the fall; take when offered during fall of junior or senior year.
2. GEOG 103 fulfills QuEST non-western studies requirement.
3. EDUC 346 fulfills QuEST ethics and pluralism requirement.

Public History (B.A.)

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar *	3	IDCR 151	Created and Called for Community *	3
COMM 105	Foundations of Oral Communication *	3	LANG	2 nd semester foreign language *	3
ENGL 1xx	Literature *	3	Varies	Laboratory Science *	3-4
LANG	1 st semester foreign language *	3	HIST 202	Historical Methods	3
HIST 201	Introduction to History	1	HIST 203	Effective Historical Writing	1
HIST 2xx	1 st 200-level course ¹	3	HIST 2xx	2 nd 200-level course ¹	3
TOTAL		16	TOTAL		16-17
Sophomore – Fall			Sophomore – Spring		
LANG	3 rd semester foreign language **	3	Varies	Arts *	3
Varies	Mathematical Science *	3-4	BIBL 20x	Bible *	3
PHIL/RELI	Philosophy or Religion*	3	WELL 1xx	Wellness *	1
HIST 2xx	3 rd 200-level course ¹	3	HIST 300x	1 st 300-level seminar	3
HIST 294	Digital History (3 rd 200-level course) ²	3	Varies	Free elective	3
			Varies	Free elective	3
TOTAL		15-16	TOTAL		16
Junior – Fall			Junior – Spring		
THEO 2xx	QuEST Christian Beliefs*	3	HIST 3xx	4 th 300-level seminar	3
HIST 3xx	2 nd 300-level seminar	3	HIST 393	Public History ²	3
Varies	3 rd 300-level seminar	3	Varies	1 st Experiential Learning/Internship	1
Varies	Applied course for Public History major	3	IDPL	Ethics, World View, or Pluralism * ³	3
Varies	Free elective	3	Varies	Free elective	3
			Varies	Free elective	3
TOTAL		15	TOTAL		16
Senior – Fall			Senior – Spring		
Varies	Science, Tech, & World *	3	HIST 3xx	6 th 300-level seminar	3
HIST 401	Historiography: History & Theory of Historical Writing	3	Varies	Free elective	3
HIST 3xx	5 th 300-level seminar	3	Varies	Free elective	3
Varies	2 nd Experiential Learning/Internship	4	Varies	Free elective	3
Varies	Free elective	3	Varies	Free elective (if needed to reach 123)	1
TOTAL		16	TOTAL		13

* QuEST / General Education requirement

1. Students may fulfill QuEST non-western studies requirement by taking HIST 271, 272, 273, or 274.

2. Digital History (HIST 294) and Public History (HIST 393) are typically offered in alternate years and do not need to be taken in order.

3. Students may fulfill QuEST ethics and pluralism requirement by taking HIST 345, 352, 355, or 392.

Politics and International Relations with American Politics Concentration - EVEN
Even year start

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
COMM 105	Foundations of Oral Communication*	3	Varies	2 nd semester foreign language*	3
Varies	1 st semester foreign language*	3	Varies	QuEST Mathematical Science	3-4
POLI 212	International Politics	3	HIST xxx	QuEST U.S. History*	3
POLI 213	Comparative Politics	3	WELL 1xx	Wellness*	1
			POLI 113	American Government*	3
		TOTAL			TOTAL
		15			16-17
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd semester language*	3	Varies	QuEST Laboratory Science*	3-4
ENGL 1xx	QuEST Literature*	3	PHIL/RELI	QuEST Philosophy or Religion*	3
BIBL 20x	Knowledge of the Bible*	3	Varies	Free elective	3
POLI xxx	Politics elective (POLI 316***)	3	POLI 220	Parties and Elections**	3
Varies	Free elective	3	POLI 314	Constitutional Law	3
Varies	Free elective	3			
		TOTAL			TOTAL
		18			15-16
Junior – Fall			Junior – Spring		
Varies	QuEST Christian Beliefs*	3	Varies	QuEST non-western*	3
Varies	QuEST Arts (ART, THEA, MUGE)*	3	POLI 243	Political Research Methods	3
POLI 240	American Presidency	3	POLI 334	Public Opinion & Political Socialization**	3
POLI 332	Congress	3	POLI 372 or INTE 391	Preparing for Public Service or Internship	3
Varies	Free elective	3	Varies	Free elective	3
		TOTAL			TOTAL
		18			15
Senior – Fall			Senior – Spring		
POLI 323	Public Policy	3	Varies	Science, Tech, & World*	3
POLI 494	Politics Seminar	3	Varies	Free elective	3
Varies	Free elective	3	Varies	Free elective	3
Varies	Free elective	3	Varies	Free elective	3
Varies	Free elective	3	Varies	Free elective	3
		TOTAL			TOTAL
		15			15

*QuEST requirement

**Take either POLI 220 OR POLI 334 to meet Political Forces requirement

***Students who have an interest in the legal system may wish to take POLI 316, which also meets QuEST Pluralism.

Politics and International Relations with Political Studies (B.A. From Messiah University) Public Policy and Management (M.S. From Carnegie Mellon University)
 Odd year start

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
COMM 105	Foundations of Oral Communication*	3	varies	2 nd semester foreign language*	3
Varies	1 st semester foreign language*	3	ECON 120	Principles of Macroeconomics	3
POLI 212	International Politics	3	HIST xxx	QuEST U.S. History*	3
POLI 213	Comparative Politics	3	WELL 1xx	Wellness*	1
			POLI 113	American Government	3
		TOTAL			15
					16-17
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd semester language*	3	Varies	QuEST Laboratory Science*	3-4
ENGL 1xx	QuEST Literature*	3	PHIL/RELI	QuEST Philosophy or Religion*	3
BIBL 20x	Knowledge of the Bible*	3	POLI 243	Political Research Methods	3
POLI xxx	Politics elective	3	POLI xxx	Politics elective	3
STAT 269	Introductory Statistics*	3	Varies	Free elective	3
Varies	Free elective	3			
		TOTAL			18
					15-16
Junior – Fall			Junior – Spring		
Varies	QuEST Christian Beliefs*	3	Varies	QuEST non-western*	3
Varies	QuEST Arts (ART, THEA, MUGE)*	3	Varies	Free elective	3
POLI 323	Public Policy	3	Varies	QuEST Ethics or Pluralism	3
Varies	Science, Tech, & World*	3	Varies	Free elective	3
Varies	Free elective	3	Varies	Free elective	3
		TOTAL			18
					15

*QuEST requirement

**The program offers multiple courses that meet the QuEST Non-Western and Ethics or Pluralism requirements.

The submission of a 5-7 page faith-politics integration paper under the direction of the Messiah University Program Coordinator will be required for admission into the Public Policy and Management program. Students are strongly encouraged to take STAT 269 to prepare for the rigor of this program.

Semesters 7-10: Students complete four semesters at Carnegie Mellon University to fulfill requirements for the M.S. in Public Policy and Management. The following courses in the MSPPM will meet the remaining undergraduate Messiah B.A. degree requirements. Students will not graduate from Messiah or receive their Messiah diploma until the completion of the masters requirements. Upon completion of all requirements, students earn both a Messiah B.A. diploma and a Carnegie Mellon MSPPM diploma.

CMU Courses Applied to Messiah B.A. in Politics and International Relations	
MS Public Policy and Management Capstone Course	3
Four 12-unit* courses in public policy, political science, and/or methodology from Carnegie Mellon University's MS in Public Policy and Management curriculum	12
TOTAL	18

III. Language, Literature, and Writing

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Guidelines for Mathematical Sciences Courses

There is no specific math course required for the Chinese, English, or Spanish majors. Familiarity with digital technology is increasingly important for students in the humanities with new developments in the digital humanities majors. Students interested in pursuing digital applications in the humanities should consider taking courses in CIS. The introductory CIS courses to consider include:

CIS 171 Problem Solving with Computers focuses on using computers and software to create reports, images, spreadsheets, web pages, and databases.

CIS 180 Introduction to Computer and Information Science covers both technical and social aspects of computing, including privacy, security, reliability, and ethics.

CIS 181 Introduction to Computer Programming in Python is the introductory programming course for both majors and non-majors.

For students interested in math, we recommend students enroll in MATH 101, MATH 102, or MATH 107 in their first year, unless they have had a pre-calculus course; then they should consider MATH 108. Statistical literacy is another important area of mathematical study, and STAT269 is a course that gives a good introduction to statistical methods and meets the QuEST requirement.

Secondary Teaching Certification in Chinese, English, and Spanish

All students in the certification majors must take two mathematical science courses—any course with a MATH, CIS, or STAT prefix. Most students choose two of the following in their first or second year: MATH 101, MATH 102, MATH 107, or CIS 171. Consider MATH 108 if you have had pre-calculus. Statistical literacy is another important area of mathematical study, and STAT 269 is a course that gives a good introduction to statistical methods and meets the QuEST requirement..

Students with Advanced Placement credit:

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit.

Curriculum for Study Abroad

Chinese Studies Major

Pre-requisite CHIN 202. Students should complete 12-15 credits of approved Chinese language courses and zero to three credits of Chinese literature, history, culture, art history, philosophy, or political science during the semester in CIEE Shanghai, China. These courses should be directly related to the target culture. Students should confirm with the Department of Language, Literature and Writing that the courses they select are approved for the Chinese major.

Spanish Major

Pre-requisite SPAN 206. Students should complete 12-18 credits of approved Spanish courses during the semester at the Pontificia Universidad Católica de Valparaíso (Chile), Universidad de Adolfo Ibañez, Viña del Mar (Chile), Universidad de Granada (España). Students must take at least one Spanish language and one Spanish literature course (Latin American or Spanish peninsular), and should select among courses in literature, history, culture, art history, philosophy, or political science. These courses should be directly related to the target culture. Students should confirm with the Department of Language, Literature and Writing that the courses selected are approved for the Spanish major.

8 Semester Plans

Chinese Studies 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
CHIN 101	Fundamentals of Chinese	3	CHIN 102	Fundamentals of Chinese	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
MATH/CIS/STAT	Math course meeting QuEST*	3	PHIL/RELI	Philosophy/Religion*	3
COMM 105	Foundations of Oral Communication*	3	WELL 1xx	Wellness course*	1
Varies	1 st Social Science or History*	3	Varies	Literature meeting QuEST*	3
			Varies	2 nd Social Science or History*	3
TOTAL		15	TOTAL		16
Sophomore –Fall			Sophomore – Spring		
CHIN 201	Intermediate Chinese	3	CHIN 202	Intermediate Chinese II	3
BIBL 2xx	Encountering the Bible*	3	Varies	2 nd Major elective	3
Varies	1 st Major elective	3	Varies	Elective or minor	3
Varies	Elective or minor	3	Varies	Elective or minor	3
Varies	Elective or minor	3	Varies	Elective or minor	3
TOTAL		15	TOTAL		15
Junior – Fall Semester Abroad			Junior – Spring		
CHIN 301	Advanced Conversational Chinese	3		Chinese courses (<i>Students must discuss course selections with their advisor</i>)	15
Varies	Ethics/Pluralism/World Views*	3			
Varies	3 rd Major elective	3			
Varies	Art/Music/Theatre/Dance* (1 st or 2 nd year)	3			
Varies	Elective or minor	3			
TOTAL		15	TOTAL		15
Senior – Fall			Senior – Spring		
CHIN 302	Advanced Chinese Writing	3	Varies	Science/Technology/World*	3
LANG 495	Language, Literature and Writing Seminar	3	THEO xxx	Christian Beliefs*	3
BIO/CHEM	Laboratory Science*	3-4	Varies	Elective or minor	3
Varies	Elective or minor	3	Varies	Elective or minor	3
Varies	Elective or minor	3	Varies	Elective or minor	3
TOTAL		15-16	TOTAL		15

*QuEST requirement

**LANG 495 must be taken in the fall semester of the senior year.

Chinese with Teaching Certification (B.A)
8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
COMM 105	Fundamentals of Oral Communication*	3	PHIL/RELI	Philosophy/Religion meeting QuEST *	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
CHIN 101	Fundamentals of Chinese	3	CHIN 102	Fundamentals of Chinese	3
MATH/CIS/STAT	Mathematical Sciences meeting QuEST *	3	MATH/CIS/STAT	Mathematical Science meeting QuEST *	3
HIST 1xx	History meeting QuEST*	3	ENGL 1xx	Literature (ENGL 122 to 176)	3
			WELL 1xx	Wellness course*	1
TOTAL		15	TOTAL		16
Sophomore –Fall			Sophomore – Spring		
EDSP 207**	Intro to Special Education	3	EDUC 208	ELL Instruction and Assessment	3
EDUC 346	Sociocultural Perspectives on Education	3	CHIN 202	Intermediate Chinese II	3
EDUC 203**	Education Psychology	3	Varies	1 st major elective	3
TEP 210**	Sophomore Field Experience	0	BIBL 2xx	Encountering the Bible*	3
CHIN 201	Intermediate Chinese I	3	Varies	Science, Tech, & the World*	3
Varies	Laboratory Science meeting QuEST*	3-4			
TOTAL		15-16	TOTAL		15
Junior – Fall			Junior – Spring Semester Abroad		
Varies	Art, Music, Theatre or Dance meeting QuEST*	3		Chinese courses (<i>Students must discuss course selections with their advisor</i>)	15
CHIN 301	Advanced Conversational Chinese	3			
Varies	2 nd major elective	3			
Varies	Christian Beliefs*	3			
HDFS 311	Adolescent Development	3			
TOTAL		15	TOTAL		15
Senior – Fall			Senior – Spring		
CHIN 302	Advanced Chinese Writing	3	EDUC 420**	Professional Issues in Education	2
EDSP 307**	Inclusion Practices	3	TEP 407**	Student Teaching Seminar	1
EDUC 331**	Instructional Design and Assessment	3	TEP 410	Pre-student teaching experience	0
TEP 310**	Junior Field Experience	0	TEP 435**	Student Teaching: Secondary	8
LANG 320**	Foreign Language Teaching Methodology	3			
LANG 495**	Language, Literature and Writing Seminar	3			
TOTAL		15	TOTAL		13

*QuEST requirement

3.0 GPA is required for admission to Teacher Education Program and Professional Semester.

**EDSP 207, EDUC 203, TEP 210 must be taken concurrently in the sophomore year.

**EDSP 307, EDUC 331, TEP 310 Chinese Education students are advised to take the junior block during the fall of their senior year.

**LANG 320, LANG 495 must be taken in the fall semester of the senior year.

**EDUC 420, TEP 435, TEP 407, TEP 410 must be taken concurrently in the spring semester of the senior year. Students may not take additional classes in the spring semester of the senior year.

NOTE: CHIN 320 is required for Chinese with Teaching certification majors. The course is offered infrequently, and students/advisors should make a point to include it into their schedule when it is offered.

**English w/ Literature Concentration (B.A.)
8 Semester Suggested Plan of Study**

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
COMM 105	Foundations of Oral Communication*	3	Varies	1 st social science/history meeting QuEST*	3
Varies	Mathematical Science meeting QuEST*	3-4	Varies	Laboratory Science meeting QuEST*	3-4
ENGL 201	Introduction to English Studies I	3	ENGL 202	Introduction to English Studies II	3
		Total			Total
		15-16			15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*	3	Varies	Philosophy or Religion*	3
Varies	2 nd social science/history meeting QuEST*	3	ENGL 270	Critical Theory	3
BIBL 2xx	Knowledge of the Bible*	3	ENGL 36x	Questions of Form, Genre, Craft (every spring)	3
ENGL 33x	Questions of Faith in Literature (every fall)	3		Elective	3
	Elective	3		Elective	3
		Total			Total
		15			15
Junior – Fall			Junior – Spring		
WELL 1xx	Wellness*	1	Varies	Non-Western Studies*	3
Varies	Christian Beliefs*	3	ENGL 35x	Questions of Culture, Identity, Power (every spring)	3
Varies	Art, Music, Dance, or Theatre meeting Quest*	3	ENGL 36x	Questions of Form, Genre, Craft (every spring)	3
ENGL 33x	Questions of Faith in Literature (every fall)	3	ENGL 380	Vocation Seminar	1
ENGL 34x	Question of Literature in History (every fall)	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
		Total			Total
		16			16
Senior – Fall			Senior – Spring		
Varies	Ethics, World View or Pluralism*	3	Varies	Science, Technology & the World*	3
ENGL 34x	Questions of Literature in History (every fall)	3	ENGL 35x	Questions of Culture Identity, Power (every spring)	3
ENGL 495	Language, Literature and Writing Seminar	3	ENGL 39x or INTE 391	Internship/Practicum	1-3
Varies	Elective	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
			Varies	Elective	3
		Total			Total
		15			16-18
					Degree total
					123

*QuEST requirement

**English w/ Creative Writing Concentration (B.A.)
8 Semester Suggested Plan of Study**

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
Varies	Mathematical Science meeting QuEST*	3-4	Varies	Laboratory Science meeting QuEST*	3-4
ENGL 201	Introduction to English Studies I	3	ENGL 202	Introduction to English Studies II	3
ENGL 203	Introduction to Creative Writing	3	COMM 105	Foundations of Oral Communication*	3
		Total			Total
		15-16			15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*	3	Varies	Philosophy or Religion*	3
Varies	1 st social science/history meeting QuEST*	3	Varies	2 nd social science/history meeting QuEST*	3
BIBL 2xx	Knowledge of the Bible*	3	ENGL 270	Critical Theory	3
ENGL 31x	Creative Writing Workshop	3	ENGL 31x	Creative Writing Workshop	3
	Elective	3		Elective	3
		Total			Total
		15			15
Junior – Fall			Junior – Spring		
WELL 1xx	Wellness*	1	Varies	Non-Western Studies*	3
Varies	Christian Beliefs*	3	ENGL 31x	Creative Writing Workshop	3
Varies	Art, Music, Dance, or Theatre meeting Quest*	3	ENGL 36x	Questions of Form, Genre, Craft (every spring)	3
ENGL 31x	Creative Writing Workshop	3	ENGL 380	Vocation Seminar	1
ENGL 33x	Questions of Faith in Literature (every fall)	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
		Total			Total
		16			16
Senior – Fall			Senior – Spring		
Varies	Ethics, World View or Pluralism*	3	Varies	Science, Technology & the World*	3
ENGL 34x	Question of Literature in History (every fall)	3	ENGL 35x	Questions of Culture, Identity, Power (every spring)	3
ENGL 39x or INTE391	Internship/Practicum	1-3	Varies	Elective	3
ENGL 495	Language, Literature and Writing Seminar	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
Varies	Elective	3			
		Total			Total
		16-18			15
					Degree Total
					123

*QuEST requirement

**English w/ Professional Writing Concentration (B.A.)
8 Semester Suggested Plan of Study**

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	Varies	2 nd language requirement*	3
COMM 105	Foundations of Oral Communication*	3	Varies	Laboratory Science meeting QuEST*	3-4
Varies	Mathematical Science meeting QuEST*	3-4	ENGL 202	Introduction to English Studies II	3
ENGL 201	Introduction to English Studies I	3	ENGL 204 or Varies	Introduction to Professional Writing (odd spring only) or 1 st social science/history meeting QuEST*	3
		Total			Total
		15-16			15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3 rd language requirement*	3	Varies	Philosophy or Religion*	3
Varies	1 st or 2 nd social science/history meeting QuEST*	3	ENGL 204 or Varies	Introduction to Professional Writing (odd spring only) or 2 nd social science/history meeting QuEST*	3
BIBL 2xx	Knowledge of the Bible*	3	ENGL 270	Critical Theory	3
ENGL 31x	Professional Writing	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
		Total			Total
		15			15
Junior – Fall			Junior – Spring		
WELL 1xx	Wellness*	1	Varies	Non-Western Studies*	3
Varies	Christian Beliefs*	3	ENGL 31x	Professional Writing	3
Varies	Art, Music, Dance, or Theatre meeting Quest*	3	ENGL 36x	Questions of Form, Genre, Craft (every spring)	3
ENGL 31x	Professional Writing	3	ENGL 380	Vocation Seminar	1
ENGL 33x	Questions of Faith in Literature (every fall)	3	Varies	Elective	3
	Elective	3	Varies	Elective	3
		Total			Total
		16			16
Senior – Fall			Senior – Spring		
ENGL 34x	Question of Literature in History (every fall)	3	Varies	Science, Technology & the World*	3
ENGL 39x or INTE391	Internship/Practicum	1-3	ENGL 35x	Questions of Culture, Identity, Power (every spring)	3
ENGL 31x	Professional Writing	3	Varies	Elective	3
ENGL 496	Language, Literature and Writing Seminar	3	Varies	Elective	3
Varies	Elective	3	Varies	Elective	3
		Total			Total
		16-18			15
					Degree Total
					123

*QuEST requirement

**English w/ Teaching Certification (B.A.)
8 Semester Suggested Plan of Study**

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year - Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called*	3
Varies	1 st language requirement*	3	HIST xxx	U.S. or European History*	3
COMM 105	Foundations of Oral Communication*	3	Varies	2 nd language requirement*	3
CIS 171	1 st Mathematical Science meeting QuEST: Problem Solving w/ Computers* [^]	3	Varies	2 nd Mathematical Science meeting QuEST* [^]	3
ENGL 201	Introduction to English Studies I	3	ENGL 202	Introduction to English Studies II	3
			Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414.		
		Total			15
Sophomore – Fall			Sophomore - Spring		
Varies	3 rd language requirement*	3	IDST xxx	Science, Technology & the World*	3
EDSP 207	Introduction to Special Education++ [^]	3	EDUC 208	Teaching English Language Learners [^]	3
EDUC 203	Educational Psychology++ [^]	3	EDUC 346	Sociocultural Perspectives on Education [^]	3
EDUC 210	Sophomore Field Experience++ [^] (fall or spring semester)	0	ENGL 270	Critical Theory (every spring)	3
ENGL 33x	Questions of Faith in Literature (every fall)	3	BIBL 2xx	Knowledge of the Bible*	3
ENGL 357 or ENGL 365	Postcolonial/World Literature (odd years) or Young Adult Literature (even years)	3		Elective	3
			Submit TEP application by 3/31 to B414.		
		Total			15
Junior – Fall			Junior - Spring		
Varies	Ethics, World Views or Pluralism*	3-4	WELL 1xx	Wellness*	1
EDUC 331	Instructional Design and Assessment++ [^]	3	Varies	Christian Beliefs*	3
EDSP 307	Inclusion Practices++ [^]	3	Varies	Philosophy or Religion*	3
TEP 310	Junior Field Experience++ [^] (fall or spring semester)	0	Varies	Lab Science*	3-4
ENGL 357 or ENGL 365	Postcolonial/World Literature (odd years) or Young Adult Literature (even years)		ENGL 35x	Questions of Culture, Identity, and Power (every spring)	3
ENGL 325 or ENGL 307	Writing Studies (odd years) or Teaching English in Secondary Schools [^] (even years)	3	ENGL 36x	Questions of Form, Genre, and Craft (every spring)	3
			Submit Professional Semester application by 11/1 to B414.		
		Total			15-16
Senior – Fall			Senior - Spring		
Varies	Art, Theatre, Music or Dance*	3	EDUC 420	Professional Issues in Education++ [^]	2
HDFS 311	Adolescent Development [^]	3	TEP 407	Secondary Student Teaching Seminar++ [^]	1
ENGL 34x	Questions of Literature in History (every fall)	3	TEP 410	Secondary Pre-Student Teaching++ [^]	0
ENGL 325 or ENGL 307	Writing Studies (odd years) or Teaching English in Secondary Schools [^] (even years)	3	TEP 435	Student Teaching: Secondary++ [^]	9
ENGL 495	Language, Literature and Writing Seminar	3			
	Elective	3			
		Total			12
					124-126

* QuEST requirement

[^] Certification requirement

++ All courses marked with this symbol must be taken concurrently as indicated.

Spanish (B.A) 8-Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
COMM 105	Foundations of Oral Communication*	3	SPAN 102	Fundamentals of Spanish	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
SPAN 101	Fundamentals of Spanish	3	PHIL/RELI	Philosophy/Religion meeting QuEST*	3
MATH/CIS/STAT	Mathematical Science meeting QuEST*	3	Varies	1 st History or Social Science meeting QuEST*	3
WELL 1xx	Wellness*	1	Varies	Elective or minor	3
		TOTAL			TOTAL
		13			15
Sophomore –Fall			Sophomore – Spring		
SPAN 201 or SPAN 203	Intermediate Spanish Spanish for Healthcare Professionals	3	SPAN 302 or 305	Culture & Identity in Latin America(meets NW) Latin American Plays of Protest (meets NW)	3
Varies	Laboratory Science meeting QuEST*	3-4	Varies	Art, Music, Theatre, or Dance meeting QuEST*	3
BIBL 2xx	Encountering the Bible*	3	SPAN 206	Spanish Conversation and Composition	3
Varies	Science, Technology, and the World*	3	Varies	2 nd History or Social Science meeting QuEST*	3
Varies	Elective or minor	3	Varies	Literature meeting QuEST* (SPAN 301, 311, 314 or 331)	3
		TOTAL			TOTAL
		15-16			15
Junior – Fall Semester Abroad[^]			Junior – Spring		
Varies	Latin American or Spanish peninsular literature	3	Varies	Ethics/Pluralism/World Views	3
Varies	Grammar/literature/history/art history/poli	3	SPAN 3xx	SPAN 311, 312, 314 (Peninsular)	3
Varies	Grammar/literature/history/art history/poli	3	SPAN 3xx	Second course from SPAN 301, 302, 305, 306 (Latin American)	3
Varies	Grammar/literature/history/art history/poli	3	THEO 2xx	Christian Beliefs*	3
Varies	Grammar/literature/history/art history/poli	3	Varies	Elective or minor	3
		TOTAL			TOTAL
		15			15
Senior – Fall			Senior – Spring		
LANG 495	Language, Literature and Writing Seminar	3	Varies	SPAN 316, 320, 331	3
SPAN 3xx	2 nd course SPAN 311, 312, 314 (Peninsular)	3	Varies	Elective or minor	3
Varies	Nonwestern if student did not take SPAN 302 or 305.	3	Varies	Elective or minor	3
Varies	Elective or minor	3	Varies	Elective or minor	3
Varies	Elective or minor	3	Varies	Elective or minor	3
		TOTAL			TOTAL
		15			15

*QuEST requirement

**LANG 495 must be taken in the fall semester of the senior year.

[^] Students should confirm with the Department of Modern Languages that the courses that they select are approved for the Spanish major.

Spanish with Teaching Certification (B.A) 8-Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
COMM 105	Fundamentals of Oral Communication*	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar*	3	SPAN 102	Fundamentals of Spanish	3
SPAN 101	Fundamentals of Spanish	3	MATH/CIS/STAT	2 nd Mathematical Science*	3
MATH/CIS/STAT	1 st Mathematical Sci. meeting QuEST*	3	ENGL 1xx	ENGL 122-176 Literature meeting QuEST *	3
HIST 1xx	History meeting QuEST	3	WELL 1xx	Wellness course*	1
			PHIL/RELI	Philosophy/Religion meeting QuEST	3
TOTAL		15	TOTAL		16
Sophomore –Fall			Sophomore – Spring		
EDSP 207**	Intro to Special Education	3	Varies	Non-western Studies* (Span 302 & 305)	2-3
EDUC 346	Socio-cultural Perspectives on Educ	3	EDUC 208	Teaching English Language Learners	3
EDUC 203**	Education Psychology	3	SPAN 206	Conversation/Composition	3
TEP 210**	Sophomore Field Experience	0	SPAN 3xx	Advanced Level Spanish (Peninsular)	3
SPAN 201	Intermediate Spanish	3	SPAN 3xx	Advanced Level Spanish (L.A.)	3
Varies	Laboratory Science*	3-4	BIBL 2xx	Encountering the Bible*	3
TOTAL		15-16	TOTAL		17-18
Junior – Fall Study Abroad[^]			Junior – Spring		
Varies	Latin American or Peninsular literature	3	Varies	Art, Music, Theatre, or Dance meeting QuEST*	3
Varies	Grammar/literature/history/art history/poli	3	SPAN 3xx	Advanced Level Spanish (Latin American/Pen)	3
Varies	Grammar/literature/history/art history/poli	3	SPAN 3xx	Advanced Level Spanish (SPAN 331, 316 or 320)	3
Varies	Grammar/literature/history/art history/poli	3	THEO 2xx	Christian Beliefs*	3
Varies	Grammar/literature/history/art history/poli	3	HDFS 311	Adolescent Development	3
			EDUC 346	Sociocultural Perspectives	3
TOTAL		15	TOTAL		18
Senior – Fall			Senior – Spring		
EDSP 307**	Inclusion Practices	3	TEP 407**	Student Teaching Seminar	1
Varies	Science, Tech, & the World*	3	TEP 410	Pre-student Teaching Experience	0
EDUC 331**	Instructional Design	3	EDUC 420**	Professional Issues in Education	2
TEP 310**	Junior Field Experience	0	TEP 435**	Student Teaching: Secondary	9
LANG 320**	FL Teaching Methodology	3			
LANG 495**	Language, Literature and Writing Seminar	3			
SPAN 3xx	Advanced Level Spanish	3			
TOTAL		18	TOTAL		12

*QuEST requirement

3.0 GPA is required for admission to Teacher Education Program and Professional Semester.

**EDSP 207, EDUC 203, TEP 210 must be taken concurrently in the sophomore year.

**EDSP 307, EDUC 331, TEP 310 Spanish Education students are advised to take the junior block during the fall of their senior year.

**LANG 320, LANG 495 must be taken in the fall semester of the senior year.

**EDUC 420, TEP 410, TEP 435, TEP 407 must be taken concurrently in the spring semester of the senior year.

Students may not take additional classes in the spring semester of the senior year.

[^] Students should confirm with the Department of Modern Languages that the courses that they select are approved for the Spanish major.

III. MUSIC

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Program Requirements and Procedures

Applied Music Juries

1. All music majors, except those in the Music and Worship degree, will perform a jury in their applied performance area at the end of each semester in which they are registered for applied lessons.
2. The jury will be graded, and the grade will comprise up to one third of the final applied music grade.
3. Students who perform a recital will be excused from that semester's jury.

Recitals

1. The Senior Recital is required for all music majors, except those in the Commercial Music and Music (Music and Worship) degrees. Seniors in the B.M. in Performance degree must present a full solo recital (approximately 60 minutes worth of music). Seniors in other music majors must present a half solo recital or joint recital (approximately 30 minutes of music per performer), though they may present a full solo recital with the approval of faculty.
2. All music education majors must perform their Senior Recital in the fall semester.
3. Juniors in the B.M. in Performance must present a joint recital or solo half recital (approximately 30 minutes) though they may present a full solo recital with the approval of faculty.
4. Additional recitals by music majors, and recitals by non-majors, require the approval of the music faculty.
5. A recital hearing is required for final permission for a student to perform in a recital on campus, whether the recital is required or optional. It is required to be completed three weeks before the recital date with two music faculty members present. The recitalist will perform pieces from his/her program on request. If the hearing is not passed, the recital will be postponed until the student is deemed prepared to present the program.

Scheduling Procedures for Concert Attendance and Recitals

1. The Department of Music Administrative Assistant coordinates scheduling of student performances.
2. Each student performer is responsible for scheduling his/her performance. Concert Attendance performances are scheduled online through the Department of Music website. Concert Attendance performance information must be submitted by noon on the **Monday** before the requested performance date.
3. Recitals are scheduled in March for the succeeding academic year. Students must make their request by filling out a form provided by the Department of Music Administrative Assistant.
4. For all programs the following information is required:
 - complete title of selection(s)
 - identifying opus number (or cataloguer's number)
 - composer's full name
 - composer's dates
 - individual movements for extended works in more than one movement.

Concert Attendance

1. All music majors with the exception of Music & Worship will enroll in MUSI 001, Concert Attendance, each semester, except when student teaching. Although no credit is given for this course, a grade of Pass/Fail will be given and will appear on the transcript.
2. At the beginning of each semester, students will be given a schedule of Wednesday meetings of Concert Attendance (generally 6 per semester) which students are required to attend, and at which attendance will be taken. Additionally, students will be required to choose and attend any 8 departmentally approved performances (in which they are not a performer) each semester.
3. Students are excused from a required Wednesday meeting of Concert Attendance for illness or emergency only. Absences must be excused by the Co-Chair of the Department of Music in charge of the course.

First Year Evaluation

1. All students in the Department of Music at Messiah University will be subject to the First Year Evaluation.
2. This comprehensive assessment of the first two semesters will be conducted by the Music Faculty in order to review progress in the areas of musicianship, academic performance, and suitability to the profession. The evaluation will occur after grades for the spring semester are entered.
3. More specifically, this evaluative process will consider grades earned in music courses and grades earned on semester juries as well as performance and professionalism in departmental ensembles and other organizations.
4. Students experiencing problems in the aforementioned areas will meet with their academic advisor and/or a representative panel of faculty members to devise strategies for improvement early in the fall of the second year as a music major
5. If the student is unable to correct issues raised by the faculty in a predetermined period of time, another meeting with the academic advisor will be scheduled to discuss options outside of the music major.

Piano Proficiency Exam

All music majors, except those in the Music (Business) and Music (Music and Worship) degrees, will register for Keyboard I in order to prepare for the Piano Proficiency Exam. Students who successfully pass the Piano Proficiency Exam at the end of the Fall semester will fulfill the other keyboard credit with any music course. Students who do not pass (or attempt) the Piano Proficiency exam in the fall will register for Keyboard II in the Spring semester. Students who do not pass the Piano Proficiency Exam at the end of the Spring Semester, will register for MUAP Piano lessons until the exam is passed at the end of their sophomore year or second year as a music major. Students are allowed three attempts to pass the Piano Proficiency Exam.

Ensemble Requirements for All Music Majors

All Music Majors (B.A. / B.S. / B.M) are required to earn a specific number of credits in music ensembles (MUEN) to fulfill graduation requirements, based on degree type and concentration.

Major	MUEN cr req'd	Special Notes
Music (B.A) Composition	6	The distribution of the 6 credits is listed below
Music (B.A.) Commercial & no concentration	6	Distribution by applied performance area (listed below)
Music (Business) (B.A.)	.5	Any MUEN
Music Education (B.S.)	6	Distribution by applied performance area
Music (Music & Worship)	3	The three credits MUST be MUEN 156
Music Performance (B.M.)	8	Distribution of 6 credits is the same as the Music (B.A.) major, with additional 2 credits in any MUEN

Additionally, most majors require a particular **distribution** of MUEN participation based on major, concentration and applied performance area.

Music BA Composition Majors:

MUEN XXX Primary Performing Ensemble (based on applied performance area)* 6 semesters

MUEN XXX Any Vocal or Instrumental Ensemble* 6 semesters

**requirement fulfilled in consultation with composition professor and major advisor*

Music BA (Commercial Concentration and students without a concentration) and the BS in Music Education: distribution dependent on applied performance area

Keyboard applied performance area:

MUEN 125 Collaborative Piano 3 semesters

MUEN 146 Piano Four Hands 2 semesters

MUEN Any Instrumental Ensemble 2 semesters

MUEN Any *Vocal Ensemble 3 semesters

MUEN Any Chamber Music Ensemble 2 semesters

**requirement fulfilled by: Concert Choir, Choral Arts Society, Men's Ensemble or Women's Ensemble*

Voice applied performance area:

MUEN 111 Concert Choir* 8 semesters

MUEN 112 Choral Arts Society 1 semester

MUEN Any Instrumental Ensemble 2 semesters

MUEN Any Music Department Ensemble 1 semester

**if not accepted into Concert Choir, requirement fulfilled by; Men's Ensemble, Women's Ensemble, or an extra semester of Choral Arts Society.*

Orchestral String applied performance area:

MUEN 121 Symphony Orchestra 8 semesters

MUEN Vocal Ensemble* 2 semesters

MUEN Any Chamber Music Ensemble 2 semesters

**requirement fulfilled by: Concert Choir, Choral Arts Society, Men's Ensemble or Women's Ensemble*

Wind/Brass/Percussion applied performance area:

MUEN 122 or 135 Wind Ensemble or Symphonic Winds 8 semesters

MUEN Vocal Ensemble* 2 semesters

MUEN Any Chamber Music Ensemble 2 semesters

**requirement fulfilled by: Concert Choir, Choral Arts Society, Men's Ensemble or Women's Ensemble*

Guitar applied performance area:

MUEN 130 Guitar Ensemble 8 semesters

MUEN Any *Vocal Ensemble 2 semesters

MUEN Any Department Ensembles 2 semesters

**requirement fulfilled by: Concert Choir, Choral Arts Society, Men's Ensemble or Women's Ensemble*

Students may register for either .5 credit or for 0 credits for music ensembles, but they **MUST** complete both the total number of MUEN credits **and** meet the distribution requirement of ensemble participation. For example, a string performance student doesn't need 4 credits of MUEN 121 (Symphony Orchestra), but they must register and participate in 8 semesters of the ensemble. They might register for some of those semesters for zero credits.

Guidelines for Mathematical Sciences Courses

There is no specific math course required for Music majors. We recommend students enroll in MATH 101, MATH 102, or CIS 171 in their first year, unless you have had a pre-calculus course; then you should take MATH 107 or MATH 108. Statistical literacy is another important area of mathematical study, and STA 269 is a course that gives a good introduction to statistical methods and meets the QuEST requirement.

Music Education Majors:

Students in the Music Education major must complete two college-level math courses, one English course (approved by TEP), and a communication course by the start of their sophomore spring semester.

Students with Advanced Placement credit:

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should go to the math department's website (www.messiah.edu/departments/mathsci/courses/ap_credit.html) to find out how credit is awarded for your scores.

Music Department Course Rotation

Courses Offered Every Semester

All MUAP

All MUEN EXCEPT: MUEN 112, 117, MUEN 149 (Spring), MUEN 148 (Summer)

MUGE 101, 210, 218

MUMH 338

MUSI 001, 491, 497, 498

Courses Offered Every Fall Semester

MUED 140, 201, 221, 301, 311, 351, 401

MUMH 304

MUSI 481

MUTH 101, 107, 109, 201, 207

Courses Offered Every Spring Semester

MUCM 353

MUED 211, 222, 251, 352, 402

MUGE 209, 225

MUMH 303, 305

MUTH 102, 108, 110, 202

Courses Offered as Directed Study

MUED 421

MUSI 291, 302, 343, 344, 485

MUCM 443, 444

Courses Not Offered Every Year

MUCM 351 (Spring, alternate years)

MUCM 431 (Fall, every 2-3 years)

MUSI 452 (Fall, alternate years starting in 2020)

MUSI 271 (Spring, 3 out of 4 years)

MUSI 301 (Spring, 3 years)

MUSI 303 (Spring, alternate years)

MUED 227 (Spring, every 3 years starting in 2020)

MUED 240 (Fall, every 3 years starting in 2021)

8-semester plan Music Education (B.S)-Instrumental Majors

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall 17 credits			First Year – Spring 17-18 credits		
MUTH 101	Music Theory I	3	MUTH 102	Music Theory II	3
MUTH 107	Sight Singing/Ear Training I	1	MUTH 108	Sight Singing/Ear Training II	1
MUTH 109	Keyboard I	1	MUTH 110	Keyboard II	1
MUED 221	Percussion Class	1	MUED 222	Brass Class	1
MUED 140	Voice Class	1	Varies	MATH/STAT meeting QuEST or EDUC 209	3
Varies	QUEST Math+ (CIS/MATH/STAT)	3	IDCR 151	Created and Called for Community+	3
COMM 105	Fundamentals of Oral Communication+	3	ENGL 122-176	Literature fulfilling QuEST+	3
IDFY 101	First Year Seminar+	3	MUAP	Applied Music	1-2
MUAP	Applied Music	1	MUEN	Ensembles (2)	1
MUEN	Ensemble	0	MUSI 001	Concert Attendance	0
MUSI 001	Concert Attendance	0			
Sophomore – Fall 18 credits			Sophomore – Spring 18 credits		
MUTH 201	Music Theory III	3	MUTH 202	Music Theory IV	3
MUTH 207	Sight Singing/ Ear Training III	1	MUED 211	Strings Class	1
MUED 201	Introduction to Music Education	1	MUED 251	Conducting I: Fundamentals	2
MUED 311	Woodwinds Class	1	EDUC 208	Instruction and Assessment with ELL	3
EDSP 207	Introduction to Special Education	3	MUAP	Applied Music	2
EDUC 203	Educational Psychology	3	MUEN	Ensembles (2)	1
TEP 210	Sophomore Field Experience	0	Varies	QuEST Bible+ or QuEST PHIL/RELI	3
Varies	QuEST Bible+ or QuEST PHIL/RELI	3	MUSI 001	Concert Attendance	0
MUAP	Applied Music	2			
MUEN	Ensembles (2)	1			
MUSI 001	Concert Attendance	0			
Junior – Fall 18 credits			Junior – Spring 16 credits		
MUMH 304	Music History II	3	MUMH 305	Music History III	3
MUED 301	C&I: 6-12 Choral	3	MUED 352	Instrumental Conducting	2
EDSP 307	Inclusion Practices	3	MUED 402	C&I: General Music with FE	3
TEP 310	Junior Field Experience	0	Varies	2 nd Language fulfilling QuEST	3
Varies	1 st Language fulfilling QuEST	3	MUSI xxx	Music Elective (if MUED 140 taken)	2
THEO 2xx	Christian Beliefs fulfilling QuEST	3	MUAP	Applied Music	2
MUAP	Applied Music	2	MUEN	Ensemble	1
MUEN	Ensembles (2)	1	MUSI 001	Concert Attendance	0
MUSI 001	Concert Attendance	0			
Senior – Fall 14.5 credits			Senior – Spring 12.5 credits		
MUSI 481	Senior Seminar in Music	1	EDUC 420	Professional Issues in Education	2
MUED 401	C&I: 4-12 Instrumental	3	TEP 407	Student Teaching Seminar	1
MUMH 338	Studies in Global Music	2	TEP 438	Student Teaching; Music	9
NUTR 110	Science and Nutrition fulfills QuEST lab	3	TEP 413	Student Teaching Experience in Music	0
EDUC 346	Sociocultural Perspectives in Education+	3	MUEN	Ensemble (w/ Petition)	.5
MUAP	Applied Music	2			
MUEN	Ensembles	.5			
MUSI 001	Concert Attendance	0			

**Vocal Pedagogy is offered in alternate years. Students should take Choral conducting in the semester that Vocal Pedagogy is not offered

- In order to register for fall, sophomore classes, you must have all clearances. Those include Criminal Background Check, FBI Fingerprints, Child Abuse History. Go to the Teacher Education Website for specific information www.messiah.edu/teacher/handbook/clearances/html.
- Music Ed students should take the PAPA Exam in the summer after the first year. See www.messiah.edu/teacher for more information
- Courses with a plus (+) must be completed by the end of the third semester of study (Fall of Sophomore year)

Music Education (B.S.)-Vocal Majors

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall 16.5-17.5 credits			First Year – Spring 17-18 credits		
MUTH 101	Music Theory I	3	MUTH 102	Music Theory II	3
MUTH 107	Sight Singing/Ear Training I	1	MUTH 108	Sight Singing/Ear Training II	1
MUTH 109	Keyboard I	1	MUTH 110	Keyboard II	1
MUED 221	Percussion Class	1	MUED 222	Brass Class	1
Varies	MATH/STAT/CIS meeting QuEST	3	Varies	MATH/STAT meeting QuEST or EDUC 209	3
COMM 105	Fundamentals of Oral Communication+	3	IDCR 151	Created and Called for Community+	3
IDFY 101	First Year Seminar+	3	ENGL 122-176	Literature meeting QuEST+	3
MUAP	Applied Music	1-2	MUAP	Applied Music	1-2
MUEN	Ensemble	.5	MUEN	Ensemble	1
MUSI 001	Concert Attendance	0	MUSI 001	Concert Attendance	0
Sophomore – Fall 18 credits			Sophomore – Spring 15 credits		
MUTH 201	Music Theory III	3	MUTH 202	Music Theory IV	3
MUTH 207	Sight Singing/ Ear Training III	1	MUED 211	Strings Class	1
MUED 201	Introduction to Music Education	1	MUED 251	Conducting I: Fundamentals	2
MUED 311	Woodwinds Class	1	Varies	QuEST Bible+ or QuEST PHIL/RELI	3
EDSP 207	Introduction to Special Education	3	EDUC 208	Instruction and Assessment with ELL	3
EDUC 203	Educational Psychology	3	MUAP	Applied Music	2
TEP 210	Sophomore Field Experience	0	MUEN	Ensemble	1
Varies	QuEST Bible+ or QuEST PHIL/RELI	3	MUSI 001	Concert Attendance	0
MUAP	Applied Music	2			
MUEN	Ensembles	1			
MUSI 001	Concert Attendance	0			
Junior – Fall 16-17 credits			Junior – Spring 18 credits		
MUMH 304	Music History II	3	MUMH 305	Music History III	3
MUED 351** or MUSI 452**	Choral Conducting or Vocal Pedagogy	2-3	MUED 402	C&I: K-5 General Music with FE	3
MUED 401	C&I: 4-12 Instrumental	3	NUTR 110	Science and Nutrition+ (fulfills QuEST)	3
EDSP 307	Inclusion Practices	3	Varies	2 nd Language fulfilling QuEST	3
TEP 310	Junior Field Experience	0	MUAP	Applied Music	2
Varies	1 st Language fulfilling QuEST	3	MUEN	Ensemble	1
MUAP	Applied Music	2	MUSI 001	Concert Attendance	0
MUEN	Ensemble	0	EDUC 346	Sociocultural Perspectives on Education	3
MUSI 001	Concert Attendance	0			
Senior – Fall 14-15 credits			Senior – Spring 12 credits		
MUED 301	C&I: 6-12 Choral	3	EDUC 420	Professional Issues in Student Teaching	2
MUED 351** or MUSI 452**	Choral Conducting or Vocal Pedagogy	2-3	TEP 407	Student Teaching Seminar	1
MUMH 338	Studies in Global Music	2	TEP 438	Student Teaching; Music	9
MUSI 481	Senior Seminar in Music	1	TEP 413	Pre-Student Teaching Experience in Music	0
THEO 2xx	Christian Beliefs fulfilling QuEST	3			
MUAP	Applied Music	2			
MUEN	Ensemble	1			
MUSI 001	Concert Attendance	0			

**Vocal Pedagogy is offered in alternate years. Students should take Choral conducting in the semester that Vocal Pedagogy is not offered

- In order to register for fall, sophomore classes, you must have all clearances. Those include Criminal Background Check, FBI Fingerprints, Child Abuse History. Go to the Teacher Education Website for specific information www.messiah.edu/teacher/handbook/clearances/html.
- Music Ed students should take the PAPA Exam in the summer after the first year. See www.messiah.edu/teacher for more information
- Courses with a plus (+) must be completed by the end of the third semester of study (Fall of Sophomore year)

III. NURSING

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The Program

Remember:

1. You are personally responsible to plan your program to meet all graduation requirements.
2. To graduate you must complete all major and QuEST requirements with a minimum of 123 total credit hours. (a typical nursing plan is 127 credits)
3. To continue at Messiah, you will need to maintain a minimum cumulative GPA of 1.80 (0–23 credits), 1.90 (24–56 credits), and 2.00 (57 credits or above).

To enter the clinical nursing courses, you will need to achieve a prerequisite earned GPA of 2.70. The achievement of a “C” or higher is required of every student in all pre-requisite courses for the major completed at Messiah University.

4. Only 1 pre-requisite course may be repeated for an earned grade < “C”. Only one “C” is allowed in a pre-requisite science course: CHEM 103, BIOL 185, BIOL 186, BIOL 189, BIOL 265. If you earn a second grade of “C” or lower in a science course, one of those courses must be repeated for a higher grade to continue in the nursing program. If you earn a C or lower in the repeated course, you will be dismissed from the nursing major.
5. To progress in the nursing major you must maintain a cumulative earned GPA of 3.00.
6. Successful criminal history background checks must be completed for entry into the nursing clinical courses.
7. You must undergo a physical examination, with annual follow-ups, that are documented on required health forms.
8. You must undergo a drug screening prior to clinical courses.
9. The last 30 credits preceding the conferring of the degree must be earned at Messiah University with a minimum of 12 credits in the major.

Guidelines for Mathematical Sciences Courses

Statistics is required for nursing majors and meets the QuEST requirement for Mathematical Sciences.

Students with Advanced Placement credit:

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics can learn [here](#) how credit is awarded for your scores.

8-semester plan Nursing (B.S.N)

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
IDFY 101	First Year Seminar*	3	COMM 105	Oral Communications*	3
CHEM 103	Chemical Science*	4	Varies	2 nd level language*	3
BIOL 185	Human Anatomy & Physiology I*	4	IDCR 151	Created & Called for Community*	3
PSYC 101 <u>or</u> SOAN 101 <u>or</u> HDFS 101	Intro to Psychology * <u>or</u> Principles of Sociology * <u>or</u> Foundations of Marriage and Family * (one of these only)	3	BIOL 189	Genetics for Health Professions	3
Varies	1 st level language*	3	BIOL 186	Human Anatomy & Physiology II	4
			WELL 1xx	Wellness course*	1
TOTAL		17	TOTAL		17
Sophomore –Fall			Sophomore – Spring		
Varies	Lang/Cross Cultural/Non Western*	3	Varies	Art, Music, Theatre or Dance*	3
BIOL 265	Microbiology	4	NURS 303	Pathophysiology	3
BIBL 20x	Bible*	3	NURS 211	Foundations of Nursing Practice	3
PSYC 209	Life Span Development	3	NURS 210	Health Assessment	3
NURS 203	Historical & Conceptual Basis for Nursing	3	NUTR 222	Principles of Nutrition	3
TOTAL		16	TOTAL		15
Junior – Fall			Junior – Spring		
ENGL XXX	Literature+	3	STAT 269	Introductory Statistics*	3
HIST XXX	US or European History *	3	NURS 312	Nursing Care of Adults & Older Adults II	4
NURS 304	Pharmacology	3	NURS 313	Nursing Care of Infants, Children, and Adolescents	4
NURS 311	Nursing Care of Adults & Older Adults I	4	NURS 305	Nursing Research I	2
NURS 310	Nursing Care of the Childbearing Family	4	PHIL/RELI xxx	Philosophy/Religion+	3
TOTAL		17	TOTAL		16
Senior – Fall			Senior – Spring		
varies	Worldviews/Pluralism/Ethics*	3	NURS 413	Leadership in Nursing	3
NURS 410	Psychiatric/Mental Health Nursing	4	NURS 414	Population and Global Health	4
NURS 411	Nursing Care of the Critically Ill	4	NURS 492	Senior Nursing Capstone	6
NURS 405	Nursing Research II	2			
THEO xxx	Christian Beliefs*	3			
TOTAL		16	TOTAL		13

*QuEST requirement

III. PSYCHOLOGY, CRIMINAL JUSTICE, and SOCIOLOGY

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Guidelines for Mathematical Sciences Courses

Psychology Majors

There is no specific math course required for these majors. Statistical literacy is important in this field, and STAT 269 is a course that gives a good introduction to statistical methods and meets the QuEST requirement. The Math Department recommends STAT 269 as a good choice in preparation for PSYC 271. As an alternative, many students enroll in MATH 101, MATH 107, or CIS 171 in their first year. If you have had a pre-calculus course; then you should consider MATH 108.

Biopsychology Majors

Undergraduate preparation for medical school, dental school, veterinary school and allied health programs (such as chiropractic, occupational therapy, optometry, pharmacy, physician assistant and podiatry) is actually fairly straightforward. Please note that while the requirements are generally standard, there are many exceptions. Students are required to meet with the Coordinator of Pre-Health Professions Advising, in addition to their academic advisor, when planning their course of study. Mathematics requirements vary. Students should check the medical school to which they are applying for math requirements. While often not required, Math 108 (or higher) and statistics are strongly recommended.

Students with Advanced Placement Credit

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should go to the math department's website (www.messiah.edu/departments/mathsci/courses/ap_credit.html) to find out how credit is awarded for your scores.

Biopsychology B.S. (Allied-Health Track)

8-semester plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called for Community*	3
BIOL 185	Human Anatomy and Physiology I ^a	4	WELL 1xx	Wellness*	1
PSYC 099	Writing for Psychology ^a	1	BIOL 186	Human Anatomy and Physiology II ^a	4
CHEM 105	General Chemistry I ^b	4	CHEM 106	General Chemistry II	4
PSYC 101	Introduction to Psychology	3	PSYC 209	Life Span Development	3
		Total			15
Total			Total		
15			15		
First Year – Fall			First Year – Spring		
<hr/>					
Sophomore – Fall			Sophomore – Spring		
COMM 105	Oral Communication*	3	BIBL 2xx	Knowledge of the Bible*	3
Varies	1st semester of language requirement*	3	Varies	2nd semester of language requirement*	3
Varies	Free Elective	3	BIOL 189	Genetics for Health Professions ^a	3
STAT 269 <i>or</i>	Introductory Statistics ^e (recommended) <i>or</i>	3	MATH xxx <i>or</i>	Math meeting QuEST* ^e (if PSYC 271 taken)	3
PSYC 271	Statistical Methods in Psychology ^e	3	Varies	<i>or</i> Free Elective	3
CHEM 204	Organic Chemistry for the Life Sciences ^c	4	PSYC 272	Research Methods in Psychology	3
		Total			15
Total			Total		
16			15		
Sophomore – Fall			Sophomore – Spring		
<hr/>					
Junior – Fall			Junior – Spring		
Varies	Art, Music, Dance, or Theatre meeting QuEST*	3	PHIL 10x <i>or</i>	Philosophy ^f <i>or</i>	3
Varies	Non-Western Studies*	2-3	Varies	Religion meeting QuEST*	3
Varies	Free Elective	3	Varies	3rd semester of language or cross-cultural* [†]	3
BIOL 470	Neuroscience	3	Varies	Free Elective	3
PSYC 350	Biological Basis of Behavior	3	BIOL xxx	Selected Major Elective ^g	3-4
		Total	PSYC 351	Sensation and Perception	3
Total			Total		
14-15			15-16		
Junior – Fall			Junior – Spring		
<hr/>					
Senior – Fall			Senior – Spring		
ENGL 1xx	QuEST Literature meeting QuEST*	3	Varies	Ethics, World View or Pluralism*	3
PSYC 345 <i>or</i>	Cognition <i>or</i>	3	HIST 1xx	QuEST History*	3
PSYC 319	Abnormal Psychology	3	THEO 2xx	Christian Beliefs*	3
PSYC 408	Experimental Psychology	3	Varies	Free Elective	3
BIOL xxx <i>or</i>	Selected Major Elective ^{d g} <i>or</i>	3-4	BIOL 495 <i>or</i>	Natural Sciences Capstone <i>or</i>	3
Varies	Free Elective	3-4	PSYC 494 <i>or</i>	Psychology Seminar <i>or</i> Free Elective	3
BIOL 495 <i>or</i>	Natural Sciences Capstone <i>or</i>	3	Varies	Free Elective as necessary	1-3
PSYC 494 <i>or</i>	Psychology Seminar <i>or</i> Free Elective	3			1-3
Varies		3			1-3
		Total			15
Total			Total		
15-16			15		

Notes:

* QuEST requirement

** Alternate year course

^a Students may alternatively select the Bioscience Track, taking BIOL 170, 171, 172, 260 in place of BIOL 185, 186, 189, PSYC 099.

^b Students should take CHEM 105 in the Fall of their first-year. Those for whom CHEM 101 is necessary should enroll in CHEM 105 in the Spring, and CHEM 106 in the Summer term.

^c Students may take CHEM 204 in place of CHEM 309, 310.

^d Needed only if CHEM 204 taken in place of CHEM 309, 310.

^e Students may take PSYC 271 and a Mathematical Science meeting QuEST in place of STAT 269.

^f Recommended. Philosophy is pre-requisite for BIOL 495 Natural Sciences Capstone.

^g **Selected Major Electives:**

- BIOL 265 Microbiology
- BIOL 348 Animal Behavior**
- BIOL 460 Physiology
- BIOL 465 Gross Anatomy

**Psychology (B.A.)
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
PSYC 101	Introduction to Psychology	3	PSYC 209	Lifespan Development	3
PSYC 099	Writing for Psychology	1	BIO 158	Human Biology*	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created & Called for Community*	3
Varies	QuEST Math/CIS/Statistics*	3	Varies	1st semester of language*	3
COMM 105	Fundamentals of Oral Communication*	3	PHIL/RELI	QuEST Philosophy or Religion*	3
TOTAL		13	TOTAL		15
Sophomore –Fall			Sophomore - Spring		
PSYC 271	Statistical Methods in Psychology	3	PSYC 272	Research Methods in Psychology	3
PSYC 226	Social Psychology	3	PSYC xxx	Psychology Elective	3
Varies	2nd semester of language*	3	Varies	3rd semester of language or Cross Cultural*	3
BIBL 2xx	Encountering the Bible/OT/NT*	3	Varies	QuEST Literature Elective*	3
HIST xxx	QuEST History*	3	Varies	Free Elective	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
PSYC 345 or 350	Cognition or Biological Basis Behavior (Fall only)	3	PSYC xxx	Psychology Elective	3
IDNW 2xx	Non-Western Studies*	2-3	PSYC xxx	Psychology Elective	3
Varies	QuEST Art, Music, or Theatre*	3	PSYC 411	History and Systems	3
IDST 2xx	Science, Technology, & World*	3	THEO xxx	Christian Beliefs*	3
PSYC 3xx	PSYC 319 Abnormal Psychology or PSYC 323 Counseling Theories, or PSYC 324 Personality (Fall Only)	3	IDxx xxx	Ethics/World Views/Pluralism	3
TOTAL		14-15	Varies	Free Elective	3
TOTAL		14-15	TOTAL		18
Senior – Fall			Senior – Spring		
PSYC 408 or 409	Experimental Psychology (Fall only) or Psychology Testing	3	PSYC 494	Psychology Seminar Psychology	3
WELL xxX	QuEST Wellness*	1	PSYC xxx	Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective (or internship)	3
Varies	Free Elective	3			
Varies	Free Elective	3			
TOTAL		16	TOTAL		15

* QuEST requirement

Total = 123-124 credits

Note: If students enter the major second semester of junior year, they will not be able to graduate on time.

**Psychology with Clinical Concentration (B.A.)
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
PSYC 101	Introduction to Psychology	3	PSYC 209	Lifespan Development	3
PSYC 099	Writing for Psychology	1	BIO 158	Human Biology	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created & Called for Community*	3
MATH/CIS/STAT	QuEST Math/CIS/Statistics*	3	Varies	1 st semester of language*	3
COMM 105	Fundamentals of Oral Communication*	3	PHIL/RELI	QuEST Philosophy or Religion*	3
		TOTAL			13
					TOTAL
					15
Sophomore –Fall			Sophomore – Spring		
PSYC 271	Statistical Methods in Psychology	3	PSYC 272	Research Methods in Psychology	3
PSYC 324	Personality (Fall only)	3	PSYC 226	Social Psychology	3
Varies	2 nd semester of language*	3	Varies	3 rd semester language or Cross Cultural*	3
BIBL 2xx	Encountering the Bible/OT/NT*	3	Varies	QuEST Literature *	3
HIST xxx	QuEST History*	3	Varies	Free Elective	3
		TOTAL			15
					TOTAL
					15
Junior – Fall			Junior – Spring		
PSYC 345 / 204	Cognition or Bio. Basis Behavior (Fall only)	3	PSYC 323	Counseling Theories	3
PSYC 319	Abnormal Psychology	3	PSYC 441	History and Systems	3
IDNW 2xx	Non-Western Studies*	2-3	Varies	Ethics/World Views/ Pluralism*	3
Varies	QuEST Art, Music, or Theatre*	3	THEO xxx	Christian Beliefs*	3
IDST 2xx	Science, Technology, & World*	3	Varies	Free Elective	3
			Varies	Free Elective	3
		TOTAL			14-15
					TOTAL
					18
Senior – Fall			Senior – Spring		
PSYC 408 or 409	Experimental Psychology (Fall only) or Psychology Testing	3	PSYC 494	Psychology Seminar Psychology Elective	3
PSYC 423	Counseling Skills	3	INTE 391 or PSYC 391	Internship or Psychology Practicum	3
WELL xxx	QuEST Wellness*	1	Varies	Free Elective (or internship)	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
Varies	Free Elective	3			
		TOTAL			16
					TOTAL
					15

*QuEST requirement

NOTE: If students enter the major second semester of junior year, they will not be able to graduate on time.

**Psychology (B.S)
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
PSYC 101	Introduction to Psychology	3	PSYC 209	Lifespan Development	3
PSYC 099	Writing for Psychology	1	BIO 158	Human Biology*	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created & Called for Community*	3
MATH/CIS/STAT	QuEST Math/CIS/Statistics*	3	Varies	1st semester of language*	3
COMM 105	Fundamentals of Oral Communication*	3	PHIL/RELI	QuEST Philosophy or Religion*	3
TOTAL		13	TOTAL		15
Sophomore –Fall			Sophomore – Spring		
PSYC 271	Statistical Methods in Psychology	3	PSYC 272	Research Methods in Psychology	3
PSYC 319/323/ 324	Abnormal Psych, Counseling Theories, or Personality (Fall only)	3	PSYC 226	Social Psychology	3
Varies	2nd semester of language*	3	Varies	3rd semester of language or Cross Cultural*	3
BIBL 2xx	Encountering the Bible/OT/NT*	3	Varies	Free Elective	3
HIST xxx	QuEST History*	3	Varies	QuEST Literature Elective*	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
PSYC 350	Biological Bases of Behavior (Fall only)	3	PSYC 351	Sensation and Perception (Spring only)	3
IDNW 2xx	Non-Western Studies*	2-3	PSYC 345	Cognition	3
Varies	QuEST Art, Music, or Theatre*	3	THEO xxx	Christian Beliefs*	3
IDST 2xx	Science, Technology, & World*	3	IDxx xxx	Ethics/World Views/Pluralism*	3
Varies	Free Elective	3	Varies	Free Elective	3
			Varies	Free Elective	3
TOTAL		14-15	TOTAL		18
Senior – Fall			Senior – Spring		
PSYC 494	Psychology Seminar	3	PSYC xxx	Psychology Elective	3
WELL xxX	QuEST Wellness*	1	PSYC xxx	Psychology Elective	3
Varies	Free Elective	3	PSYC 441	History and Systems	3
Varies	Free Elective	3	Varies	Free Elective (or internship)	3
Varies	Free Elective	3	Varies	Free Elective	3
PSYC 408	Experimental Psychology (Fall only)	3			
TOTAL		16	TOTAL		15

*QuEST requirement

If students enter the major second semester of junior year, they will not be able to graduate on time.

**Psychology (B.S) Pre-Occupational Therapy / Occupational Therapy MOT
Suggested Course Sequencing**

Course #	Course name	Credits	Course #	Course name	Credits
Fall Year 1 – 14 credits			Spring Year 1 – 16 credits		
PSYC 099	Writing for Psychology	1	PSYC 209	Lifespan Development	3
PSYC 101	Introduction to Psychology	3	BIOL 186	Human Anatomy and Physiology II	4
IDFY 101	First Year Seminar*	3	IDCR 151	Created & Called for Community*	3
BIOL 185	Human Anatomy and Physiology	4	Varies	1st semester of language*	3
COMM 105	Fundamentals of Oral Communication*	3	STAT 269	Statistics (or QuEST Math/CIS)*	3
Fall Year 2 – 16 credits			Spring Year 2 – 17 credits		
PSYC 271	Statistical Methods in Psychology	3	PSYC 272	Research Methods in Psychology	3
PSYC 350	Biological Bases of Behavior	3	PSYC 226	Social Psychology	3
BIBL 2xx	Encountering the Bible/OT/NT*	3	PSYC 345	Cognition	3
BIOL 158	Human Biology	4	PSYC 351	Sensation and Perception (Spring only)	3
WELL xxx	QuEST Wellness*	1	ATHT 203	Medical Terminology & Topics	2
Varies	2nd semester of language*	3	Varies	3rd semester of language or Cross Cultural*	3
Fall Year 3 – 18 credits			Spring Year 3 – 18 credits		
PSYC 494	Psychology Seminar	3	PSYC 319	Abnormal Psychology	3
PSYC 408	Experimental Psychology (Fall only)	3	PSYC 441	History and Systems	3
IDxx xxx	Ethics/World Views/Pluralism*	3	HIST xxx	QuEST History*	3
IDNW 2xx	Non-Western Studies*	3	THEO xxx	Christian Beliefs*	3
PHIL/RELI	QuEST Philosophy or Religion*	3	Varies	QuEST Art, Music, or Theatre meeting QuEST*	3
Varies	Elective	3	Varies	QuEST Literature meeting QuEST*	3
Summer Year 3 – 16 credits			Fall Year 4 – 14 credits		
OCCU 524	Theoretical Perspectives in Occ Therapy #	3	OCCU 524	Theoretical Perspectives in OT #	3
OCCU 526	Analysis of Occupation #	3	OCCU 535	OT Process: Psychosocial Practice & Lab #	4
OCCU 510	Evidence-Based Inquiry #	3	OCCU 553	Common Conditions in OT Practice#	3
OCCU 535	OT Process: Psychosocial Practice #	4	OCCU 555	Neurological Conditions OT Practice & L #	4
OCCU 535L	OT Process: Psychosocial Practice Lab #	0			
OCCU 544	Therapeutic Techniques #	3			
OCCU 544L	Therapeutic Techniques Lab #	0			
Spring Year 4 – 14 credits			Summer Year 4 – 13 credits		
OCCU 510	Evidence-Based Inquiry	3	OCCU 530	Research Methods and Design	3
OCCU 544	Therapeutic Techniques	3	OCCU 573	Health Promotion OT: Community Inter	2
OCCU 565	OT Process: Pediatric Practice & Lab	4	OCCU 602	Level 1 Fieldwork Adult Practice	1
OCCU 562	Level I Fieldwork: Pediatric Practice	1	OCCU 605	OT Process: Adult Practice & Lab	4
OCCU 626	Advocacy, Policy and Practice Trends	3	OCCU 615	Adaptations & Assistive Technology & Lab	3
Fall Year 5 – 14 credits			Spring Year 5 – 10 credits		
OCCU 572	Level I Fieldwork: Community Intervent	2	OCCU 509	OT Process and Practice	2
OCCU 620	Global, Cultural & Spiritual Practices in OT	2	OCCU 636	Enrichment Seminar	2
OCCU 623	Administration, Management & Leadership	3	OCCU 622	Fieldwork Level II-A	6
OCCU 625	OT Process: Older Adult Practice & Lab	4			
OCCU 630	Research Seminar	3			
Summer Year 5 – 6 credits					
OCCU 632	Fieldwork Level II-B	6			

*QuEST requirement; # Graduate course fulfilling undergraduate requirements (total of 23 credits)

UG major requirements: 47 credits. QuEST requirements: 49-52 credits. Free electives 8-5. Total of UG requirements: 123 credits. Unique credits towards graduate degree: 61 credits. Total credits: 184.

MOT Prerequisites that must be completed at Messiah University:

BIOL 185, 186 Anatomy and Physiology I & II	PSYC 209 Life Span Development
PSYC 319 Abnormal Psychology	ATHT 203 Medical Terminology
STAT 269 Introductory Statistics or PSYC 271 Statistical Methods in Psychology	

Criminal Justice B.A.
8 Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1st semester of language*	3	Varies	2nd semester of language*	3
COMM 105	Foundations of Oral Communication*	3	varies	Elective or minor requirement	3
Varies	QuEST Math/CIS/STAT*	3-4	Varies	Laboratory Science meeting QuEST*	3-4
CRIJ 103	Crime, Justice and Society*	3	varies	Elective or minor requirement	3
		Total			Total
		15-16			15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3rd semester of language or cross-cultural*	3	ENGL 1xx	QuEST Literature meeting QuEST*	3
Varies	2 nd social science/history meeting QuEST*	3	Varies	Philosophy or Religion*	3
BIBL 2xx	Knowledge of the Bible*	3	SOAN 285	Research Methods	3
CRIJ 201	Law Enforcement	3	CRIJ 259	Criminal Law and the Court	3
varies	Elective or minor requirement	3	varies	Elective or minor requirement	3
		Total			Total
		15			15
Junior – Fall			Junior – Spring		
Varies	Christian Beliefs*	3	WELL 1xx	QuEST Wellness*	1
Varies	Art, Music, or Theatre meeting Quest*	3	Varies	Non-Western Studies*	3
CRIJ 366	Corrections	3	CRIJ 362	Criminology	3
SOAN 356	Social Inequality (QuEST Pluralism)*	3	CRIJ 367	Victimology	3
varies	Elective or minor requirement	3	varies	Elective or minor requirement	3
			varies	Elective or minor requirement	3
		Total			Total
		15			16
Senior – Fall			Senior – Spring		
varies	Criminal Justice elective	3	CRIJ 369	Forensics	3
SOAN 442	Senior Thesis	3	SOAN 371	Global Justice	3
INTE 391	Internship	3	varies	Elective or minor requirement	3
varies	Elective or minor requirement	3	varies	Elective or minor requirement	3
varies	Elective or minor requirement	3	varies	Elective or minor requirement	3
		Total			Total
		15			15

*QuEST requirement
Students need 123 credits to graduate

Sociology and Anthropology (B.A.) 8 Semester Plan

Course #	Course Name	Credits	Course #	Course Name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First year seminar*	3	IDCR 151	Created and Called*	3
Varies	1st semester of language *	3	Varies	2nd semester of language *	3
COMM 105	Foundations of Oral Communication*	3	Varies	Elective or minor requirement	3
Varies	QuEST MATH/CIS/STAT *	3-4	Varies	QuEST Laboratory Science *	3-4
SOAN 101	Principles of Sociology*	3	Varies	Elective or minor requirement	3
Total		15-16	Total		15-16
Sophomore – Fall			Sophomore – Spring		
Varies	3rd semester of language/cross-cultural*	3	ENGL 1xx	QuEST Literature meeting QuEST*	3
Varies	QuEST History*	3	Varies	Philosophy or Religion*	3
BIBL 2xx	Knowledge of the Bible*	3	SOAN 285	Research Methods	3
SOAN 212	Cultural Anthropology (QuEST N-W)	3	SOAN 335	Social Conflict and Reconciliation	3
SOAN 342	Race and Gender in the U.S. *	3	Varies	Sociology and Anthropology elective	3
Total		15	Total		15
Junior – Fall			Junior – Spring		
Varies	Christian Beliefs*	3	WELL 1xx	Wellness*	1
Varies	QuEST ART, THEA, MUSI*	3	Varies	Non-Western Studies*	3
SOAN 356	Social Inequality (QuEST Pluralism)	3	SOAN 371	Global Justice (QuEST N-W)	3
SOAN 331	Sociocultural Theory	3	Varies	Sociology and Anthropology elective	3
Varies	Elective or minor requirement	3	Varies	Elective or minor requirement	3
			Varies	Elective or minor requirement	3
Total		15	Total		16
Senior – Fall			Senior – Spring		
Varies	Ethics, World View or Pluralism*	3	Varies	Science, Technology & the World*	3
SOAN 442	Senior Thesis	3	SOAN 341	Religion and Society	3
INTE 391	Internship	3	Varies	Elective or minor requirement	3
Varies	Elective or minor requirement	3	Varies	Elective or minor requirement	3
Varies	Elective or minor requirement	3	Varies	Elective or minor requirement	3
Total		15	Total		15

*meets quest requirement
Students need 123 credits to graduate

III. SOCIAL WORK

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Guidelines for Mathematical Sciences Courses

Statistical literacy is important in this field, and STAT 269 is a course that gives a good introduction to statistical methods and meets the General Education requirement. All majors in the Social Work major must take STAT 269, which is usually taken in the second or third year. Students who have a weak background in Algebra should consider taking MATH 101 or MATH 102 in their first year in preparation for STAT 269.

Students with Advanced Placement credit:

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should go to the math department’s website (www.messiah.edu/departments/mathsci/courses/ap_credit.html) to find out how credit is awarded for your scores.

8 Semester Plan

Social Work (B.S.W)

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
SOWK 099	Professionalism in Social Work	1	SOWK 221	Human Behavior	3
SOWK 120	Introduction to Social Work	3	IDCR 151	Created and Called for Community*	3
PSYC 101	Introduction to Psychology*	3	BIOL 258	Human Biology*	4
varies	1 st language*	3	varies	2 nd language*	3
COMM 105	Oral Communication*	3	SOAN 101	Principles of Sociology	3
IDFY 101	First Year Seminar*	3			
		TOTAL			16
Sophomore –Fall			Sophomore – Spring		
SOWK 250	Social Work Practice with Individuals	3	SOWK 360	Social Work Practice with Families	3
SOWK 251	Field Exp: SW Practice with Individuals	1	SOWK 361	Field Exp: SW Practice with Families	1
SOWK 382	Topics in Social Work	3	STAT 269	Introductory Statistics	3
BIBL 2XX	Encountering the Bible: Old/New Test.*	3	Varies	Literature* (1 st or 2 nd year)	3
HIST 142	U.S. History Since 1865	3	Varies	Nonwestern meeting QuEST	3
varies	Free Elective	3	IDST XXX	Science, Technology, and the World*	3
		TOTAL			16
Junior – Fall			Junior – Spring		
SOWK 372	Social Work Practice with Groups	4	SOWK 420	Social Welfare Policies	3
SOWK 385	Introduction to Research in Social Work	3	SOAN 356	Social Inequality (fulfills Pluralism)	3
PHIL/RELI XXX	Philosophy/Religion*	3	ART/MUSI	Arts*	3
THEO XXX	Christian Beliefs	3		Free Elective	(3)
	Free Elective	(3)		Free Elective	(3)
		TOTAL			15
Senior – Fall			Senior – Spring		
SOWK 475	Social Work Practice with Communities & Organizations	3	SOWK 485	Seminar in Social Work Practice	3
SOWK 476	Field Experience Communities and Organizations**	1	SOWK 490	Field Practice in Social Work	12
SOWK 484	Preparation for Field Practice	1	To enhance a student's learning, the Social Work Program highly encourages students to spend a semester in Harrisburg, and/or to take advantage of any of the cross cultural/ semester abroad opportunities offered through Messiah College.		
ECON 110/117/120	One of the listed economic courses	3			
WELL XXX	Wellness Course	1			
	Free Elective	3			
	Free Elective	3			
		TOTAL			15

*QuEST requirement

**Meets ELI service learning requirement.

Human Services (B.A.) 8 Semester Plan

Note: This major may not be student-initiated.

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year – Spring		
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
COMM 105	Oral Communication*	3	SOWK 221	Human Behavior	3
Varies	1 st language*	3	LAB XXX	Laboratory Science* (1 st year)	3-4
SOWK 120	Introduction to Social Work	3	Varies	2 nd language* (1 st or 2 nd year)	3
PSYC 101	Introduction to Psychology*	3	SOAN 101	Principles of Sociology	3
TOTAL		15	TOTAL		15-16
Sophomore – Fall			Sophomore – Spring		
LANG XXX	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3	SOWK 382	Topics in Social Work	3
HIST 142	U.S. History Survey Since 1865*	3	PHIL/RELI xxx	Philosophy/Religion* (1 st or 2 nd year)	3
BIBL 20X	Knowledge of the Bible* (2 nd -4 th year)	3	SOWK 360	Social Work Practice w/ Families	3
SOWK 250	Social Work Practice w/ Individuals	3	SOWK 361	Field Experience w/ Families	1
SOWK 251	Field experience w/ Individuals	1	Varies	Literature* (1 st or 2 nd year)	3
Varies	Mathematical Science* (1 st year)	3			
TOTAL		16	TOTAL		13
Junior – Fall			Junior – Spring		
THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3	Varies	Art, Music, Theatre or Dance* (1 st or 2 nd year)	3
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3	SOAN 356	Social Inequality (fulfills pluralism)*	3
SOWK 372	Social Work Practice w/Groups OR		SOWK 420	Social Welfare Policies	3
Varies	Social Science elective	3-4		Free elective	3
SOWK 385	Introduction to Research in Social Work	3		Free elective	3
TOTAL		12-13	TOTAL		15
Senior – Fall			Senior – Spring		
IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3	IDS xxx	Ethics/Pluralism/World Views* (3 rd or 4 th year)	3
WELL xxx	Wellness activity* (1 st or 2 nd year)	1	INTE 391 or 394	Internship	6
SOWK 475	Social Work Practice w/ Comm & Org	3	HUMS 485	Human Services Capstone	3
SOWK 476	Field experience w/ Community & Org	1		Free elective, if needed	3
	Free elective	3			
	Free elective	3			
TOTAL		13-14	TOTAL		15

*QuEST requirement

III. THEATRE and DANCE

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Auditions

Students wishing to major in Theatre, Musical Theatre, or Dance must complete an audition for acceptance into the program. Three days are scheduled annually for auditions, one in the fall and two in early spring. Students are encouraged to attend one of the scheduled audition days however, they may also schedule auditions at other times during the year if they are not able to attend on the scheduled audition days. For more information please contact the Chair of the Department of Theatre and Dance.

Enrichment Program

Enrichment credits are typically earned during the junior year. Our students have enriched their Messiah education through theatre training at various programs such as Gaiety School of Acting, Dublin; Goldsmiths, University of London; and a variety of internships with professional theatre companies.

Senior Capstone Project

During the junior year each student proposes a Senior Capstone Project. This portfolio project represents the culmination of the student's training and serves as a bridge to graduate programs, professional theatre or other job opportunities.

Guidelines for Mathematical Sciences Courses

There is no specific math course required for Theatre majors. We recommend students enroll in MATH 101, MATH 102, or CIS 171 in their first year, unless you have had a pre-calculus course; then you should take MATH 107 or MATH 108. Statistical literacy is another important area of mathematical study, and STAT 269 is a course that gives a good introduction to statistical methods and meets the QuEST requirement.

Students with Advanced Placement credit

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should go to the math department's website (www.messiah.edu/departments/mathsci/courses/ap_credit.html) to find out how credit is awarded for your scores.

8 Semester Plans

Dance (B.A.)

(Applies to students entering in 2023; the department has a 3-year rotation of courses)

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall 2023			First Year – Spring 2024		
COMM 105	Fundamentals of Oral Communication*	3	Varies	1 st language*	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
PHIL/RELI xxx	Philosophy/Religion* (1 st or 2 nd year)	3	Varies	Laboratory Science* (1 st year)	3-4
VARIABLES	Mathematical Science* (1 st year)	3-4	DANC 4xx	Dance Technique 4xx	1
DANC 3xx	Dance Technique 3xx	1	DANC 111	Performance Ensemble	.5
DANC 111	Performance Ensemble	.5	DANC 4xx	Dance Technique 4xx	1
DANC 3xx	Dance Technique 3xx	1	Varies	1 st Social Science, History* (1 st or 2 nd year)	3
TOTAL		14.5-15.5	TOTAL		14.5-15.5
Sophomore – Fall 2024			Sophomore – Spring 2025		
Varies	2 nd language* (1 st or 2 nd year)	3	Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3
THEA 115	Theatre production Practicum	1	IDNW xxx	Non-Western Studies* (2 nd or 3 rd year)	2-3
DANC 1xx	Dance Technique 1xx	1	BIBL 20x	Knowledge of the Bible* (1 st or 2 nd year)	3
DANC 3xx	Dance Technique 3xx	1	DANC 2xx	Dance Technique 2xx	1
DANC 305	Dance History	2	DANC 4xx	Dance Technique 4xx	1
ENGL xxx	Literature* (1 st or 2 nd year)	3	DANC 404	Choreography	2
Varies	2 nd Social Science, History* (1 st or 2 nd year)	3	Varies	Elective or minor	3
TOTAL		14	TOTAL		15-16
Junior – Fall 2025			Junior – Spring 2026		
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3
DANC 3xx	Dance Technique 3xx	1	IDS xxx	Ethics/Pluralism/World Views* (3 rd or 4 th year)	3
DANC 1xx	Dance Technique 1xx	1	DANC 111	Performance Ensemble	.5
THEA 150	Introduction to Tech and Design	3	DANC 4xx	Dance Technique 4xx	1
DANC 111	Performance Ensemble	.5	HPED 321	Kinesiology	3
DANC 304	Dance Ministry	2	DANC 2xx	Dance Technique 2xx	1
Varies	Elective or minor	3	DANC 314	Improvisation	2
TOTAL		13.5	TOTAL		13.5
Senior – Fall 2026			Senior – Spring 2027		
DANC 3xx	Dance Technique 3xx	1	DANC 4xx	Dance Technique 4xx	1
THEA 475	Capstone Seminar	3	DANC 470	Capstone Practicum	1-3
DANC 111	Performance Ensemble	.5	DANC 111	Performance Ensemble	.5
DANC 304	Dance Pedagogy	3	DANC xxx	Dance Elective	3
Varies	Elective or minor	3	Varies	Elective or minor or internship	3
Varies	Elective or minor	3	Varies	Elective or minor or internship	4
TOTAL		13.5	TOTAL		12.5-14.5

*QuEST requirement

NOTE: Dance majors need 30-35 free electives to meet the required 123 credits to graduate. A minor or second major is encouraged.

Musical Theatre (B.F.A.) 8 Semester Plan

(Applies to students entering in 2023. The department has a 3-year rotation of courses)

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall 2023			First Year – Spring 2024		
IDFY 101	First Year Seminar*	3	Varies	1 st language*	3
Varies	Philosophy/Religion* (1 st or 2 nd year)	3	IDCR 151	Created and Called for Community*	3
Varies	Mathematical Science* (1 st year)	3	MUAP 111	Applied Voice	1
THEA 120	Acting I*	3	THEA 223	Acting II	3
THEA 115	Production Practicum	1	DANC xxx	Dance Technique II	1
DANC xxx	Dance Technique I	1	THEA 260	Musical Theatre	3
MUAP 111	Applied Voice	1	DANC xxx	Dance Technique II	1
MUEN xxx	Music Ensemble	.5	MUGE 101	Fundamentals of Music Theory / Theory I	3
DANC xxx	Dance Technique I	1			
TOTAL		16.5	TOTAL		18
Sophomore – Fall 2024			Sophomore – Spring 2025		
Varies	2 nd language* (1 st or 2 nd year)	3	Varies	3 rd language or Cross Cultural* (2 nd or 3 rd year)	3
DANC xxx	Dance Technique I	1	BIBL 20X	Knowledge of the Bible* (1 st or 2 nd year)	3
THEA 115	Production Practicum	1	DANC xxx	Dance Technique II	1
Varies	1 st Social Science, History* (1 st or 2 nd yr)	3	THEA 260	Musical Theatre	3
THEA 150	Intro to Tech & Design	3	THEA 230	Directing I	3
MUTH 101	Music Theory I	3	MUAP 111	Applied Voice	1
MUTH 107	Sight Singing	1	MUTH 108	Sight Singing	1
MUTH 111	Applied Voice	2	DANC 404	Choreography	2
MUAP xxx	Applied Piano / Keyboard	1			
TOTAL		18	TOTAL		17
Junior – Fall 2025			Junior – Spring 2026		
THEA 115	Production Practicum	1	THEA 115	Production Practicum	1
THEA 240	Survey of Dramatic Lit	3	MUEN	Music Ensemble	.5
DANC xxx	Dance Technique I	1	THEA 323	Acting III	3
IDNW xxx	Non-Western Studies	2-3	THEA 325	Acting Techniques for Musical Theatre	3
MUAP 111	Applied Voice	2	DANC xxx	Dance Technique II	1
MUEN xxx	Music Ensemble	.5	MUAP 111	Applied Voice	1
MUAP xxx	Applied Piano / Keyboard	1-2	Varies	2 nd Social Science, History* (2 nd or 3 rd year)	3
Varies	Laboratory Science	3-4	MUED 251	Conducting I	2
TOTAL		13.5-16.5	TOTAL		14.5
Senior – Fall 2026			Senior – Spring 2027		
IDST xxx	Science, Tech, & World* (3 rd or 4 th year)	3	IDS xxx	Ethics/Pluralism/World Views* (3 rd or 4 th yr)	3
THEA 115	Production Practicum	1	THEA 423	Acting IV	3
THEA 420	Audition Techniques	3	DANC xxx	Dance Technique II	1
THEA 475	Senior Capstone Seminar	3	MUAP 111	Applied Voice	1
MUAP 111	Applied Voice	1	THEA 341	History of Theatre II	3
MUEN xxx	Music Ensemble	.5	THEA 260/460	Musical Theatre or Advanced Musical Theatre	3
THEA 470	Senior Capstone Practicum	3	THEA 470	Senior Capstone Project	3
THEO 2xx	Christian Beliefs	3			
TOTAL		17.5	TOTAL		17

*QuEST requirement

We encourage students in this program to take summer on-line courses when available.

**Digital Media (B.A.) Church Media Concentration
8 Semester Plan**

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall 2023			First Year – Spring 2024		
IDFY 101	First Year Seminar	3	Varies	2 nd language*	3
CIS 180	Introduction to Computer & Info. Science	3	IDCR 151	Created and Called for Community*	3
Varies	1 st language*	3	DIGM 105	Foundations in Creative Digital Media	3
COMM 203	Basic Video and Editing	3	THEA 115	Production Practicum	1
ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3	Varies	Non-western Art (ARTH 210, COMM 327, COMM 321)	3
THEA 115	Production Practicum	1	CIS 181	Computer Programming I	3
TOTAL		16	TOTAL		16
Sophomore – Fall 2024			Sophomore – Spring 2025		
Varies	3 rd language or Cross Cultural*	3	COMM 105	Fundamentals of Oral Communication	3
COMM 217	Introduction to Film	3	BIBL 20X	Knowledge of the Bible* (1 st or 2 nd year)	3
THEA 150	Intro. to Tech. Production & Design	3	THEA 250	Stage Management	3
ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3	CIS 191	Web Development: Client	3
ENGL xxx	Literature* (1 st or 2 nd year)	3	MUCM 353	Sound Design	3
DIGM 215 OR DIGM 210	Game and Art Design Seminar Video and Church Media Seminar	1	WELL xxx	Wellness Course* (1 st or 2 nd year)	1
TOTAL		16	TOTAL		16
Junior – Fall 2025			Junior – Spring 2026		
Varies	Laboratory Science*	3-4	SOAN/HIST	1 st Social Science, History* (1 st or 2 nd year)	3
THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3	CHRM 210/242	Theology of Ministry/Christian Spirituality	3
THEA 115	Production Practicum	1	COMM 382	History and Theory of Digital Media	3
ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209) – 2 courses	6	THEA 350	Scenographic Tech.	3
DIGM 215 OR DIGM 210	Game and Art Design Seminar Video and Church Media Seminar	1	Varies	Philosophy/Religion	3
TOTAL		14-15	TOTAL		15
Senior – Fall 2026			Senior – Spring 2027		
Varies	DIGM Elective	5	Varies	Ethics/Pluralism/World Views* (3 rd or 4 th year)	3
DIGM 490	Senior Seminar and Project	4	SOAN/HIST	2 nd Social Science, History*	3
Varies	Free Electives	6	Varies	DIGM Elective	3
			Varies	Free Electives	6
TOTAL		15	TOTAL		15

***Courses contain a pre-requisite (the pre-requisite counts as DIGM elective)

III. Art and Design

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Sophomore Review

All Studio Art, Graphic Design and Art Education majors are required to go through the sophomore review. This includes transfer students new to the major and/or new to the University. Students in these majors typically go through the review during their fourth semester of study. Students cannot put off the review if they are on campus (i.e studying abroad). If the student is not on campus during their fourth semester, they are encouraged to schedule an appropriate time with prior approval. Transfer students to the major must accumulate 9 studio credits at Messiah University prior to the review, and must have obtained at least sophomore standing. Transfer students with previous studio credits from other colleges will go through the review when they have earned more than 9 studio credits at Messiah University and have obtained at least sophomore standing.

Students are required to present a portfolio of the work that they have accomplished thus far in their program to a panel of studio faculty. The portfolio must include at least one project from each studio course they have taken (including works done at other colleges). Students are limited to approximately 12 pieces, and prepare a 10-12 minute discussion with the panel. No work from high school may be included in this review.

The faculty panel rates the student's work, the presentation, student and classroom skill and responsiveness to academic advising. A single score is assigned. Students must score at least 55% to remain in the program. Students are also grouped into the top third, middle third and bottom third categories. Students in the bottom third category are urged to create a plan with the help of their advisor to reevaluate their goals and to plan for methods of improvement.

Guidelines for Mathematical Sciences Courses

Studio Art and Art History Majors:

There is no specific math course required for these majors. We recommend students enroll in MATH 101, MATH 102, or CIS 171 in their first year, unless you have had a pre-calculus course; then you should take MATH 107 or MATH 108. Statistical literacy is another important area of mathematical study, and STAT 269 is a course that gives a good introduction to statistical methods and meets the QuEST requirement.

Art Education Majors:

Students in these majors must take two mathematical science courses, which are usually taken during the first or second year. Any course with a MATH, CIS, or STAT prefix meets this requirement. Most students choose two of the following: MATH 101, MATH 102, CIS 171, MATH 107, MATH 108.

Students with Advanced Placement credit:

Requirements for courses in mathematical sciences can be met through Advanced Placement exam credit. Students who have taken AP exams in calculus, computer science, or statistics should go to the math department's website (www.messiah.edu/departments/mathsci/courses/ap_credit.html) to find out how credit is awarded for your scores.

8-semester plans

Art Education with K-12 Teaching Certification (B.S.)

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
COMM 105	Fundamentals of Oral Communication* [^]	3	IDCR 151	Created and Called for Community*	3
IDFY 101	First Year Seminar* [^]	3	Varies	QuEST MathematicalSciences* [^]	3
Varies	QuEST MathematicalSciences* [^]	3	ART 182	Color and Composition	3
ART 110	Visual Thinking and Digital Tools	3	ART 121	Form, Space & Media	3
ART 171	Drawing I	3	ARTH 111	Methods & Theories of Art History	3
				<i>Clearances must be completed.</i>	
	TOTAL	15		TOTAL	15
Sophomore –Fall			Sophomore – Spring		
ENGL 1xx	QuEST Literature* [^] (122-176)	3	Varies	QuEST Laboratory Science/STW	3
EDUC 203	>Education Psychology [^]	3	BIBL xxx	Knowledge of the Bible*	3
EDSP 207	>Introduction to Special Education [^]	3	EDUC 208	Teaching English Language Learners	3
TEP 210	>Sophomore Field Experience [^]	0	ARTH 151	Art History: 1400-21 st Century	3
ART xxx	Studio	3	ART xxx	Studio	3
ART xxx	Studio	3	ART xxx	Studio	3
				<i>March 1st – Application due for educ. program. April – Must have completed or in the process of completing required educ. block of courses to register for restricted courses.</i>	
	TOTAL	15		TOTAL	18
Junior – Fall			Junior – Spring		
ART 355/356	Elementary/Secondary Curr. Strategies	3	Varies	1 st semester Language*	3
ART xxx	Studio	3	PHIL/RELI	QuEST Philosophy/Religion*	3
ART xxx	Studio	3	EDUC 346	Sociocultural Perspectives on Education	3
WELL 1xx	Wellness course*	1	EDUC 308	>Instruct. & Assess. English Lang. Learners	3
TEP 310	>Field Experience	0	ART 210	Topics in Non-Western Art	3
EDUC 331	>Instructional Design & Assessment	3	ART xxx	Studio	3
EDSP 307	>Inclusion Practices	3			
				<i>December 1st – Application due for professional semester.</i>	
	TOTAL	16		TOTAL	18
Senior – Fall			Senior – Spring		
Varies	2 nd semester of Language*	3	TEP 407	Student Teaching Seminar	1
ARTH 209/309	History of Modern Art or Contemp. Art	3	TEP 412	Pre-Student Teaching Experience in Art	0
ART 355/356	Elementary/Secondary Curr. Strategies	3	TEP 437	Student Teaching	9
ART 4xx	Senior Studio	3	EDUC 420	<i>Professional Issues in Education - Optional for fulltime status</i>	(2)
ART 493	Art Seminar	3			
	TOTAL	15		TOTAL	10

*QuEST requirement

[^]Course must be completed by the end of the sophomore first semester in order to apply for the teacher education program.

>Courses must be taken together within the semester.

Graphic Design (B.F.A.) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
COMM 105	Foundations of Oral Communication*	3	Varies	Mathematical Sciences*	3-4
IDFY 101	First Year Seminar*	3	Varies	Language 1*	3
Varies	Laboratory Science*	3-4	IDCR 151	Created and Called for Community*	3
ART 110	Visual Thinking and Digital Tools	3	ART 182	Color and Composition	3
ART 171	Drawing I	3	ARTH 111	Art Historical Methods and Theories	3
TOTAL		15-16	TOTAL		15-16
Sophomore –Fall			Sophomore – Spring		
Varies	Language 2*	3	Varies	2D or 3D studio	3
ARTH 209/309	History of Modern Art/Contemporary Art	3	Varies	Language 3 or Cross Cultural*	3
ART 205	Hand Papermaking	3	BIBL xxx	Knowledge of the Bible*	3
ART 237	Typography	3	Varies	Design Course	3
Varies	Philosophy or Religion* OR ARTH 205 Design History and Theory^	3	Varies	2D or 3D studio	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
Varies	1 st Social Science or History*	3	Varies	2D or 3D studio (J-Term)	3
Varies	Comm course (333/341/342/259)	3	IDST xxx	Science, Technology and the World	3
Varies	Design Course	3	THEO 2xx	Christian Beliefs*	3
Varies	Design Course	3	Varies	Design Course	3
Varies	Literature meeting Quest OR ARTH 205 Design History and Theory^	3	Varies	Design Course	3
WELL 1xx	Wellness*	1	ARTH 209	Topics in Non-Western Art	3
TOTAL		16	TOTAL		18
Senior – Fall			Senior – Spring		
Varies	2 nd Social Science or History*	3	IDS xxx	Ethics/Pluralism/World Views*	3
ART 483	Senior Studio: Graphic Design	3	ART 494	Senior Art Exhibit	3
ART 493	Art Seminar	3	Varies	2D or 3D studio	3
Varies	Design Course	3	Varies	Design Course	3
Varies	Design Course	3	INTE 391	Internship	3
TOTAL		15	TOTAL		15

*Course meeting QuEST requirement

^ARTH 205 is scheduled for EVEN fall years.

Studio Art (B.A.) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
COMM 105	Oral Communication*	3	Varies	Language 1*	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
Varies	Mathematical/Computer Sciences*	3	BIO/CHEM	Laboratory Science	3-4
ART 110	Visual Thinking and Digital Tools	3	WELL 1xx	Wellness course*	1
ART 171	Drawing I	3	ART 182	Color and Composition	3
			ARTH 111	Intro to Art History	3
TOTAL		15	TOTAL		16-17
Sophomore –Fall			Sophomore – Spring		
Varies	Language 2*	3	Varies	Language 3 or Cross Cultural*	3
Varies	Literature	3	BIBL xxx	Knowledge of the Bible*	3
PHIL/REL	Philosophy/Religion*	3	ARTH 150/151	Art History	3
ARTxxx	Studio Art Concentration Studies I	3	ART xxx	Studio Art Concentration Studies 2	3
			ART xxx	Studio Art Cross Concentration 1	3
TOTAL		12	TOTAL		15
Junior – Fall			Junior – Spring		
IDST XXX	Science, Technology and the World	3	THEO 2XX	Christian Beliefs*	3
Varies	1 st Social Science or History*	3	Varies	2 nd Social Science or History*	3
ARTH 209/309	History of Modern Art/Contemporary Art	3	ARTH 210	Topics in Non-Western Art	3
ART XXX	Studio Art Concentration Studies 3	3	ART XXX	Studio Art Concentration Studies 4	3
ART XXX	Studio Art Cross Concentration 2	3	ART XXX	Studio Art Cross Concentration 3	3
TOTAL		15	TOTAL		15
Senior – Fall			Senior – Spring		
ART 48x	Advanced Concentration Studies	3	Varies	Ethics/Pluralism/World Views*	3
ART 493	Art Seminar	3	ART 494	Senior Art Exhibit	3
ARTH 3xx	Art History Elective	3	Varies	Free Elective	3
ART xxx	Studio Art Cross Concentration 4	3	Varies	Free Elective	3
Varies	Free Elective	3	Varies	Free Elective	3
TOTAL		15	TOTAL		15

*QuEST requirement

Studio Art (B.F.A.) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
COMM 105	Oral Communication*	3	MATH/CIS/STAT	Mathematical/Computer Sciences* (J-Term)	3-4
IDFY 101	First Year Seminar*	3	Varies	Language 1*	3
Varies	Laboratory Science*	3-4	IDCR 151	Created and Called for Community*	3
ART 110	Visual Thinking and Digital Tools	3	ART 182	Color and Composition	3
ART 171	Drawing I	3	ARTH 111	Intro to Art History	3
TOTAL		15-16	TOTAL		15-16
Sophomore –Fall			Sophomore – Spring		
Varies	Language 2*	3	ART xxx	Studio Art Cross Concentration	3
Varies	Literature	3	Varies	Language 3 or Cross Cultural*	3
ARTH 150	Art History I	3	BIBL 20x	Knowledge of the Bible*	3
ART xx	Studio Art Concentration Studies 1:7	3	ARTH 151	Art History II	3
ART xxx	Studio Art Cross Concentration I, 1:2	3	ART xxx	Studio Art Concentration Studies 2:7	3
TOTAL		15	TOTAL		15
Junior – Fall			Junior – Spring		
PHIL 10x	Philosophy/Religion*	3	ARTxxx	Studio Art Cross Concentration II, 1:2	3
Varies	1 st Social Science or History*	3	THEO 2xx	Christian Beliefs*	3
ARTH 209/309	History of Modern Art/Contemporary Art	3	IDST xxx	Science, Technology and the World	3
ART xxx	Studio Art Concentration Studies 3:7	3	ARTH 210	Topics in Non-Western Art	3
ART xxx	Studio Art Cross Concentration I, 2:2	3	ART xxx	Studio Art Concentration Studies 4:7	3
			ART xxx	Studio Art Concentration Studies 5:7	3
TOTAL		16	TOTAL		18
Senior – Fall			Senior – Spring		
Varies	2 nd Social Science or History*	3	IDS xxx	Ethics/Pluralism/World Views*	3
WELL 1xx	Wellness course*	1	PHIL 342	Aesthetics	3
ART 48X	Advanced Concentration Studies	3	ART 494	Senior Art Exhibit	3
ART 493	Art Seminar	3	ART xxx	Studio Art Concentration Studies 7:7	3
ART xxx	Studio Art Concentration Studies 6:7	3	ART xxx	Studio Art Elective	3
ART xxx	Studio Art Cross Concentration II, 2:2	3			
TOTAL		16	TOTAL		15

*QuEST requirement

Digital Media (Interactive Design Concentration) (B.A) 8 Semester Plan

Course #	Course name	Credits	Course #	Course name	Credits
First Year – Fall			First Year - Spring		
COMM 105	1 st Language*	3	Varies	2 nd Language*	3
IDFY 101	First Year Seminar*	3	IDCR 151	Created and Called for Community*	3
PHIL/RELI	Philosophy/Religion*	3	DIGM 105	Foundations in Creative Digital Media	3
CIS 180	Mathematical Sciences*	3-4	WELL1xx	Wellness course*	1
ART 237	Typography & Visual Communications	3	ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3
			CIS 181	Computer Programming I	3
TOTAL		15-16	TOTAL		16-17
Sophomore –Fall			Sophomore – Spring		
Varies	3 rd Language or Cross Cultural*	3	COMM 225	Digital Editing (J-Term)	3
Varies	Literature*	3	Varies	Oral Communication*	3
COMM 217	Introduction to Film	3	BIBL 20x	Knowledge of the Bible*	3
ART 217	Digital Imaging	3	BIO/CHEM	Lab Science*	3-4
CIS 191	Web Development: Client Side	3	ART 337	Graphic Design & Prof. Practices	3
DIGM 210 or DIGM 215	Video and Church Media Seminar Game and Art Design Seminar	1			
TOTAL		16	TOTAL		15
Junior – Fall			Junior – Spring		
IDST xxx	Science, Technology and the World	3	MUCM 353	Sound Design	3
Varies	2 nd Social Science or History*	3	THEO 2xx	Christian Beliefs* (2 nd or 3 rd year)	3-4
ARTH 210 or COMM 321, 327	Topic in NW Art or Latin American Cinema or Global Indigenous Media	3	ART 347, 420	Service Centered Design or Designer as Author	3
ARTxxx or ARTH xxx	Art Foundation (ART 121, 171, 182, 217, 251, 336***, 352, 431*** OR ARTH 151, 205, 209)	3	ART 336, 338, 431	Interactive Design, Digital Illustration, or Motion Design	3
Choice	Digital Media Elective 1	3	Choice	Digital Media Elective 2	3
DIGM 210 or DIGM 215	Video and Church Media Seminar Game and Art Design Seminar	1			
TOTAL		16	TOTAL		15-16
Senior – Fall			Senior – Spring		
IDS xxx	Ethics/Pluralism/World Views*	3	COMM 382	History and Theory of Digital Media	3
DIGM 490	Senior Seminar and Project	4	INTE 3xx	Internship	1-9
ART 336, 338, 352, 431	2 nd Interactive Design, Digital Illustration, Digital Photo or Motion Design	3	Varies	Free Elective	3
Varies	1 st Social Science or History*	3	Varies	Free Elective	3
Varies	Free Elective	3			
TOTAL		16	TOTAL		12-15

*QuEST requirement

***Courses contain a pre-requisite (the pre-requisite counts as DIGM elective)

IV. Experiential Learning Initiative (ELI)

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Experiential Learning Degree Requirement

The Experiential Learning Initiative (ELI) is a common learning requirement. ELI-approved experiences include the following categories: Internships/Practica, Service Learning, Leadership, Off-Campus Programs and Undergraduate Research.

ELI provides students with a structured framework to engage their chosen experience in a way that leads to enhanced self-awareness, career preparation and community engagement opportunities. The ELI aims to teach and prepare students to articulate their “Messiah story” and the tangible impact of their experiences in a way that is meaningful to prospective employers, graduate programs and their communities.

- Students are introduced to the ELI through the CCC course and through academic advising.
- Students must have completed a minimum of **24 credits** prior to completing an approved experience to fulfill their ELI requirement. For transfer students, credits from other institutions will be considered toward the 24 credit requirement.
- Students should check their degree audit and also consult their academic advisor on whether or not a requirement in their major fulfills their ELI requirement.
- *Prior experiences that occur outside of Messiah are not eligible to meet the ELI requirement.*

While students only need to complete one of the experiences to fulfill their ELI requirement, they are encouraged, as manageable, to consider doing more than one of these experiences.

ELI experiences include several distinctive features:

- At the beginning of the experience, students develop learning objectives based on the common learning ELI reflection prompts.
- At the conclusion of the experience, students reflect on the outcomes of their stated learning objectives, and create a “career application” showcasing the “So what?” of their experience in a way that is contextualized for a targeted external audience (employer, graduate school, etc.). Sample career applications include a résumé, ePortfolio, personal website and LinkedIn profile.
- Students receive feedback from their ELI advisor on the establishment of and progress toward learning objectives/outcomes at least three times during their experience.

As a result of engaging in the ELI, students will be able to articulate the tangible impact of their experience on their academic learning, personal and professional development, and community contributions.

ELI Options

(Note: Certain types of experiences have been revised to include the components of ELI, thus meeting the ELI requirement. For others, particularly department-based research and practica, a corresponding proposal must be submitted to and approved by the respective ELI advisory team.)

Internships/Practica

- All credit-bearing internships that are supervised through the centralized Internship Program in the Career and Professional Development Center (CPDC) have been updated to include the ELI components, thereby meeting the ELI requirement.
- Academic departments interested in offering practicum courses or individual student practicum experiences must apply to have the practicum count as ELI prior to the start of the term in which the practicum experience begins. If approved for ELI, department offers practica as ELI-embedded (all students enrolled). More information about ELI practica, including the faculty proposal form, appears at: https://www.messiah.edu/info/21614/info_for_educatorseli_advisors
- ELI advisors for this experience include CPDC staff for internships and faculty supervising ELI-approved practica.

Service Learning

- All officially-designated service learning courses are required to incorporate ELI components, thereby meeting the ELI requirement.
- Students may also fulfill their ELI requirement through non-credit-bearing cocurricular service coordinated through the Agape Center for Local and Global Engagement. Interested students should contact the Agape Center for more information on these opportunities.
- Faculty who wish to teach a service learning experience must complete the ELI Service Learning Proposal Form at https://www.messiah.edu/info/21614/info_for_educatorseli_advisors
- ELI advisors for this experience include faculty teaching ELI-approved service learning courses.

Off-Campus Programs

- All semester-long programs and cross-cultural courses are approved to meet the ELI requirement when the student successfully completes the embedded ELI components.
- ELI advisors for this experience include Agape Center for Local and Global Engagement staff and faculty overseeing cross-cultural courses.
- More information about options in this area appear at <https://www.messiah.edu/info/23659/students>

Leadership

- Approximately 150 leadership positions (but not all leadership positions) have incorporated the ELI components, and therefore meet the ELI requirement.
- Pre-approved positions are found in the following departments/student organizations: Residence Life (RAs), Campus Ministries, Student Government Association, Student Activities Board, The Pulse, Wellness & Recreation, Multicultural Student Programs, Student Success, The Writing Center, Career and Professional Development Center, Admissions Ambassadors.
- More information can be found at https://www.messiah.edu/info/22286/eli_experiences
- ELI advisors for this experience include educators who supervise ELI-approved leadership positions.

Undergraduate Research

- Students must communicate to their supervising faculty member their interest in having their research project fulfill the ELI requirement prior to the project's start.

- Faculty who desire to deliver a research experience to meet a student’s ELI requirement must complete the ELI Approval Form at https://www.messiah.edu/info/21614/info_for_educatorseli_advisors prior to the start of the term in which the research experience begins.
- ELI advisors for this experience include faculty supervising ELI-approved research.

Advising ELI

Experience	Embedded or Optional**	Minimum GPA	Registration Notes
Internship*	Embedded	Yes	No additional steps needed beyond course registration INTE 391 or 394.
Practicum*	Embedded	No, unless stated by sponsoring dept.	No additional steps needed beyond course registration for appropriate practica, which must have been previously approved by ELI Internship/Practicum co-chairs.
Leadership*	Embedded	Yes - varies	Register for ELIR 020 in spring of year in which leadership complete. (Permission of ELI Leadership chair required.) Note: December grads register in fall.
Off-Campus Semester Long Programs*	Embedded	Yes	No additional steps needed beyond course registration
Cross-Cultural Courses*	Embedded	No	No additional steps needed beyond course registration
Research	Optional	Varies	Register for ELIR 040 in semester during which project will be completed, in addition to research course, if credit bearing. (Permission of advisory team co-chairs required.)
Service-Learning*	Embedded in credit-bearing SL courses; options for cocurricular service	No	For SL courses: no additional steps needed beyond course registration For cocurricular option: students apply through Agape Center and then receive instructions for registration once approved. A plan must be in place by Sept. 15.

*Requires advance application for experience by student. Please see www.messiah.edu/eli for more information about each particular experience type.

** All students participating in embedded ELI options will complete the necessary components. Students pursuing experiences which are optional in nature, must have the experiences approved by the relevant advisory team.

ELI advisory team co-chair contacts may be found [here](#).

IX. FINANCIAL AID OFFICE & STUDENT FINANCIAL SERVICES

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The Messiah University Financial Aid Office and the Student Financial Services Office

Messiah University has realigned Financial Aid and Student Financial Services (student account functions) in order to maximize service delivery to students, streamline processes and eliminate redundancies. Both offices are located on the third floor of the Kim S. Phipps Admissions and Welcome Center.

Both offices are prepared for consultation with students and their parents planning to finance a college education, and each office can:

- Discuss general financial aid questions
- Assist with Financial Aid requirements
- Help find scholarships
- Assist with FERPA, Privacy Word, and Parent Access

The **Student Financial Services Office** is better equipped to help students and parents with:

- eBill questions
- Financial Counseling
- Discuss various payment options, including the monthly payment plans, 529 Payments
- Questions related to billing, the monthly payment plan, other student account topics, and basic financial aid questions:
- Hours: Monday through Friday, 8:00 a.m. to 5:00 p.m.
- Contact: studentfinsvcs@messiah.edu or 717-691-6004

The **Financial Aid Office** is better equipped to help students and parents with:

- Questions about adjustments to the financial aid package
- Questions about special circumstances that apply to the student's financial aid eligibility
- Question on policies, rules and regulations for institutional and all other financial aid programs
- Questions related to the management of financial aid programs and individual student eligibility
- Hours: Monday through Friday 8:30 a.m. to 4:30 p.m.
- Contact: finaid@messiah.edu or 717.691.6007

The items addressed in the rest of this document are best referred to Financial Aid Office staff.

Financial Aid Policies

Each year, the Financial Aid Office publishes a webpage entitled Financial Aid Policies. This information contains many more details about financial aid policies and procedures than can be included in the Advising Handbook, and contains updates, which occur between publications of the Handbook. The combination of these publications should give each student the opportunity to be well informed about the financial aid policies which affect them. This information is available on the Financial Aid Office webpage at www.messiah.edu/info/21385/policies_and_resources- choose appropriate year.

Institutional Forms of Financial Aid

Messiah University offers merit-based academic scholarships, scholarships based on a combination of merit and need, and tuition discounts.

Virtually all students begin their enrollment at Messiah University with either an academic scholarship or a need-based grant from Messiah. Many have more than one form of institutional aid, and most students receive this aid for four years of enrollment.

Basic forms of institutional financial aid with renewal criteria:

(Award Amounts for 2022-23) (You will see students with different amounts because award amounts change from year to year.)

Special Note Regarding Renewal Criteria: As of the end of the 2022-23 academic year, Satisfactory Academic Progress (SAP) will be the only academic criteria required for continued scholarship eligibility. No GPA requirements higher than the SAP standard will be required to continue to receive academic scholarships. A few exceptions will exist for students who have received academic scholarships funded by an endowed fund, or a direct gift, from a donor who establishes their own GPA requirements. Students who receive one of these scholarships will be informed of the specific GPA requirements for their scholarship(s).

Scholarship Name	Annual Amounts	Comments
Trustees' Scholarship	Full tuition in student's 1 st year	This scholarship does not adjust to full-tuition in future years; it remains at the amount of full tuition in the student's 1 st year
President's Scholarship	\$5,000	New students are awarded \$5,000 and can keep their Provost's Scholarship in combination with their President's Scholarship.
Provost's Scholarship	\$13,000 - \$16,000	The amounts vary depending on transfer vs first year status, and high school academic achievement.
Dean's Scholarships in various majors	Typically \$1,000	The various departments manage the renewal of these scholarships and have variations in their requirements. Most departments have some sort of performance standard in addition to a GPA requirement. Check with the department for renewal criteria.
Full Tuition Lloyd and Lois Martin Multicultural Scholarship	Full tuition in student's 1 st year	This scholarship does not adjust to full-tuition in future years; it remains at the amount of full tuition in the student's 1 st year
Lloyd and Lois Martin Multicultural Scholarship (Martin's Scholar)	\$5,000	New students are awarded \$5,000 and can keep their Provost's Scholarship in combination with their Martin Scholarship.
Faculty Scholarship	\$1,000-\$1,500	
Flowers Scholarship	\$2,500-\$3,000	
Messiah University Grant	\$100 - \$12,000	In addition to regular satisfactory academic progress, students must continue to have financial need.
Messiah University Scholarship	Typically \$1,000 - \$14,000, with some outliers	This amount varies quite a bit depending on what year the student started, and their level of financial need.
Merit Scholarship Recognition	\$1,000	We are no longer participating in the actual National Merit Scholar program, but we continue to recognize these students with a strictly

		institutional award.
Covenant Grant	\$500	Awarded to students who are members or regular attenders of Brethren in Christ congregations

Other Sources and Types of Financial Aid

Assistance is also available through federal, state, and private funds administered by the University in the form of grants, loans, and work study.

- Financial Aid can be in the form of gift aid (grants or scholarships), loans, and work.
- Students need to file the Free Application for Federal Student Aid (FAFSA) in order to apply for most forms of financial aid (except for academic scholarships and institutionally funded jobs – Federal Work-Study recipients must file a FAFSA).

Role of Academic Advisors in Financial Aid

- Be sure to advise students to contact the Financial Aid Office if they express concerns regarding finances.
- Be aware that, while substantial financial aid is available to many students, there are situations where the student will need to borrow significant amounts of money to pay for their education.

Points to Remember When Advising Students

1. Students will have financial aid problems if they do not make Satisfactory Academic Progress (details below). **Please make sure the student understands that dropping classes could negatively impact future aid eligibility if the appropriate number of credits are not completed.** If uncertain, have the student check with the Financial Aid Office for specifics of their situation before you approve the dropping of classes.
2. As noted above, Messiah University will no longer enforce specific GPA requirements for scholarship continuation. All scholarship recipients will retain their scholarships regardless of GPA, as long as they meet the Satisfactory Academic Progress standard.
3. Students can appeal loss of financial aid (usually due to lack of SAP) for unusual circumstances OUTSIDE OF THEIR CONTROL. Typically this would be a medical issue, and always requires documentation of the situation.

Satisfactory Academic Progress

- All students (including international students) enrolled at Messiah University are subject to the academic standards of the University.
- The Higher Education Act of 1965 mandates institutions of higher education to establish minimum standards of Satisfactory Academic Progress (SAP) for students receiving financial aid.
- In order to continue to receive financial aid, students must meet the SAP standard.

Visit the Financial Aid Office policies webpage at:

www.messiah.edu/info/21385/policies_and_resources

Choose the appropriate academic year and then navigate down the page to the undergraduate and graduate Satisfactory Academic Progress policies.

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Majors

Art and Design

- Art Education (K–12) (B.S.) with concentrations in:
 - Graphic Design and Digital Art
 - Three-Dimensional Studies
 - Two-Dimensional Studies
- Graphic Design (B.F.A.)
- Studio Art (B.A. and B.F.A.) with concentrations in
 - Graphic Design and Digital Art (B.A. only)
 - Three-Dimensional Studies
 - Two-Dimensional Studies

Biblical, Religious and Philosophical Studies

- Biblical and Religious Studies (B.A.)
- Christian Ministries and Leadership (B.A.) with concentrations in:
 - Community Engagement
 - Congregational Leadership
- Philosophy (B.A.)
- Youth Ministries (B.A.)

Biological Sciences

- Biology (B.S.) with concentrations in:
 - Biomedical
 - General
 - Organismal
- Biology with Secondary Teaching Certification (B.S.)
- Biopsychology (B.S.)
- Environmental Science (B.S.)
- Molecular Biology (B.S.)
- Sustainability Studies (B.A.) with Conservation and Agriculture concentration

Business

Accounting (B.S.)
Business Administration (B.A.)
Business Administration (B.S.) with concentrations in:
 Entrepreneurship
 Hospitality and Tourism
 Human Resource Management
 Leadership
 Technology and Operations Management
Economic Development (B.A.)
Economics (B.A.)/(B.S.)
Finance (B.S.)
 Financial Analysis
 Financial Planning
International Business (B.S.)
Marketing (B.S.)

Chemistry and Biochemistry

Biochemistry (B.A.)/(B.S.)
Biochemistry (B.S.) American Chemical Society certified
Chemistry (B.A.)/(B.S.)
Chemistry (B.S.) American Chemical Society certified
Chemistry with Secondary Teaching Certification (B.A.)

Communication

Broadcasting and Journalism (B.A.) with concentrations in:
 Broadcasting
 Journalism
Communication (B.A.)
Film and Media Arts (B.A.)
Public Relations (B.A.)

Computing, Mathematics, and Physics

Actuarial Science (B.S.)
Computer and Information Science (B.S.) with concentrations in:
 Business Information Systems
 Computer Science
 Software Development
 Web Development
Computer Science with Teaching Certification (B.A.)
Cybersecurity (B.S.)
Mathematics (B.A.)
Mathematics with Secondary Teaching Certification (B.A.)
Physics (B.A.)/(B.S.)
Physics with Secondary Teaching Certification (B.A.)

Education (Programs leading to certification in grades K-12 and 7-12 are housed in their primary academic department)

Education with Teaching Certification in Grades PreK-4 (B.S.)

Education with Dual Teaching Certification in Grades PreK-4 and Special Education PreK-8 (B.S.)

Education with Teaching Certification in Grades 4-8 (B.S.) with concentrations in:

English

Math and Social Studies

Math

Science and English

Science

Science and Math

Social Studies

Science and Social Studies

Math and English

Special Education with Teaching Certification (N-12)

Engineering

Engineering (B.S.E.) with concentrations in:

Biomedical

Computer

Environmental

General

Biomedical Engineering (BSBME)

Civil Engineering (BSCE)

Electrical Engineering (BSEE)

Mechanical Engineering (BSME)

Robotics Engineering (BSRE)

Health, Nutrition and Exercise Science

Applied Health Science (B.S.) with concentrations in:

Exercise Science

Pre-Athletic Training

Pre-Occupational Therapy

Pre-Physical Therapy

Pre-Professional

Health and Physical Education (K-12) (B.A.)

Nutrition and Dietetics (B.S.)

Sport Management (B.A.)

History, Politics, and International Relations

History (B.A.)

History with Secondary Social Studies Teaching Certification (B.A.)

Politics and International Relations (B.A.) with concentrations in:

American Politics

International Relations

Public History (B.A.)

Human Development and Family Science

Family and Consumer Sciences Education (K-12) (B.S.)

Human Development and Family Science (B.A.)

Literature, Language, and Writing

Chinese Studies (B.A.)
Chinese Studies with K-12 Teaching Certification (B.A.)
English (B.A.) with concentrations in:
 Creative Writing
 Literature
 Professional Writing
English with Secondary Teaching Certification (B.A.)
Spanish (B.A.)
Spanish with K-12 Teaching Certification (B.A.)

Music

Music (B.A.) with concentrations in:
 Commercial Music
 Composition
Music Education (K–12) (B.S.)
Music (Music and Worship) (B.A.)
Music Performance (B.Mus.)

Nursing

Nursing (B.S.N.)

Psychology, Criminal Justice and Sociology

Biopsychology (B.S.)
Criminal Justice (B.A.)
Psychology (B.A.) with optional concentration in Clinical
Psychology (B.S.)
Psychology (B.S.) with Pre-Occupational Therapy / Occupational Therapy MSOT
Sociology and Anthropology (B.A.)
Sustainability Studies (B.A.) with Community Development concentration

School of the Arts

Digital Media (B.A.) with concentrations in:
 Interactive Design (Department of Art and Design)
 Church Media (Department of Theatre and Dance)
 Digital Video and Story (Department of Communication)
 Mobile Application and Game Design (Department of Computer and Information Science)

School of the Humanities

Peace and Conflict Studies (B.A.)

Social Work

Social Work (B.S.W.)

Theatre and Dance

Dance (B.A.)
Musical Theatre (B.F.A.)
Theatre (B.A.)

3+ Accelerated Bachelor's / Graduate Degree Collaborations

Biochemistry (B.A.) / Doctor of Pharmacy (PharmD) University of the Sciences in Philadelphia
Applied Health Science (B.S.)/M.S.A.T. in Athletic Training – Messiah University
Applied Health Science (B.S.)/M.S.O.T in Occupational Therapy– Messiah University
Politics (B.A.) /M.S. in Public Policy and Management) – Carnegie Mellon University
Psychology (B.S.)/M.S.O.T. in Occupational Therapy– Messiah University

Pre-Health and Professional Programs

Pre-Dental	Pre-Optometry
Pre-Chiropractic	Pre-Pharmacy
Pre-Forensic Science	Pre-Physical Therapy
Pre-Law	Pre-Physician's Assistant
Pre-Medical (allopathic and osteopathic)	Pre-Podiatry
Pre-Occupational Therapy	Pre-Veterinary

Teacher Certification Programs

(Programs leading to certification in grades K-12 and 7-12 are housed in their content-specific academic department)

Art Education (K–12)	English (7–12)
Biology (7–12)	Family & Consumer Sciences (K–12)
Chemistry (7–12)	Health and Physical Education (K–12)
Chinese (7-12)	Mathematics (7–12)
Computer Science (7-12)	Music (K–12)
Education	Physics (7-12)
PreK-4	Social Studies (7–12)
PreK-4 & Special Education PreK-8	Spanish (K–12)
Grades 4-8	
Special Education (N-12)	
TESOL	

Minors

Art and Design

Art History
Studio Art

Biblical, Religious, and Philosophical Studies

African-American Religion and Culture
Bible
Congregational Ministries
Cross Cultural Ministries
Philosophy
Religion
Theology
World Christianity
Youth Ministries

Biological Sciences

Biology
Environmental Science
Molecular Biology
Sustainability Studies

Business

Accounting
Business Administration
Business Foundations
Economic Development
Economics
Entrepreneurship
Finance
Hospitality and Tourism
Human Resource Management
International Business
Leadership
Marketing

Chemistry and Biochemistry

Chemistry

Communication

Broadcasting and Journalism
Communication
Public Relations

Computing, Mathematics, and Physics

Business Information Systems
Computer Science
Mathematics
Physics
Statistics

Web Development

Education

Early Childhood Education
Education
Socio-Cultural Perspectives on Education
Speech and Language Pathology
Special Education
Teaching Engl. to Speakers of Other Lang.

Engineering

Biomedical Engineering
Civil Engineering
Electrical Engineering
Environmental Engineering
Mechanical Engineering
Robotics Engineering

Health, Nutrition and Exercise Science

Foods and Nutrition
Public Health
Sport Management

History, Politics, and International Relations

Classical, Medieval and Renaissance Studies
History
Politics and International Relations
Pre-Law

Human Development and Family Science

Children & Youth Services
Disability and Family Wellness
Gerontology
Human Development and Family Science
Multicultural Families
Pre-Counseling and Therapy

Language, Literature, and Writing

Chinese Studies
Creative Writing
English
Spanish

Music

Music
Music and Worship

School of the Humanities

Digital Public Humanities
Peace and Conflict Studies

Psychology, Criminal Justice and Sociology

Pre-Counseling and Therapy
Psychology
Criminal Justice
Gender Studies
Sociology and Anthropology

Social Work

Human Services

Theatre and Dance

Dance
Theatre

Certificates

Digital Marketing
Financial Planning
Hospitality and Tourism
TESOL

VI. ADVISING RESOURCES

Advising Resources

This section provides a list of some of the advising resources for Messiah University advisors and students. Websites are provided for each office so that advisors and students may find the most up-to-date information.

The Agape Center for Local & Global Engagement

The Agape Center for Local & Global Engagement provides experiences for students to serve our local, domestic, and international neighbors through weekly service opportunities and short-term trips. It's also a place for students to seek out academic credit bearing off-campus experiences such as semester-long study abroad and cross-cultural courses that take place each year. For more information go to <http://www.messiah.edu/agape>

The Career and Professional Development Center

The CPDC serves the career and professional development needs of students from every academic major and class year. Career coaches are available to assist students in the following areas: identifying strengths and interest areas, exploring majors and career options, developing a plan to test out possibilities and gain practical experience, specifically through internships, and providing resources for the transition to employment and graduate school. Through individual career advising appointments, career-related programs and events, and interactive online resources, the CPDC offers services to meet a wide variety of career development needs. More information can be found at www.messiah.edu/career

The Engle Center

The Engle Center for Counseling and Health Services provides a wealth of information for students, educators and advisors. A web page designed specifically for educators contains information about counseling and health services, how to recognize and respond to students in difficulty, how to refer, and information about medical leave. For more information go to <http://www.messiah.edu/info/20898/educators>

Experiential Learning http://www.messiah.edu/info/21610/experiential_learning_initiative

Students can learn about opportunities to fulfill their experiential learning requirement at www.messiah.edu/eli. Experiences available include: internships/practica, leadership, off-campus study, service learning and research.

International Student Programs office is located in the Larsen Student Union. ISP exists to understand and meet the unique needs of international students (F-1, missionary and third culture kid students) at Messiah by providing services, programs, and guidance leading to personal success and meaningful engagement with the broader campus community. www.messiah.edu/isp

Multicultural Student Programs offices are located in the Larsen Student Union.

The purpose of MSP at Messiah University is to meet the unique needs of domestic underrepresented students by providing holistic support through mentoring, diversity education and exploration, as well as safe and transformative learning environments for all members of the university community. https://www.messiah.edu/info/20700/multicultural_programs

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Academic Assistance

Academic Advisors. Each student is assigned to an academic advisor based upon the student's major.

Support Services for Students. The University provides a variety of resources to students, including the Office of Academic Accessibility, the Career Center for Vocation and Development, and the Engle Center for Health and Counseling.

Math Help. Tutoring is provided by the Department of Computing, Mathematics, and Physics throughout the academic year for students who desire assistance with math, statistics, programming, and physics courses.

- Location and time vary by class; see your Canvas course for details.
- Most tutoring is held in Frey Academic; some virtual tutoring is available.
- During scheduled tutoring sessions, no sign-up is required
- Questions? Contact your course instructor.

Academic Strategies Courses. GEST 041 Academic Strategies is offered each semester and is mandatory for provisionally admitted first year students. Highly recommended for students who are on probation or otherwise need help with academic skills.

The Writing Center. Any student at any stage in the writing process—from understanding an assignment and finding a topic to composing and revising a draft—may find assistance and encouragement at the Writing Center. Trained peer tutors advise and support student clients who visit the Writing Center, helping them become more confident and adept writers. The Writing Center is located within the Learning Commons of Murray Library and is open Monday through Thursday afternoons and evenings.

The Learning Center (located in Murray Library) offers students personal assistance with study skills and teaches the student to apply those skills to the course content the student is attempting to master. The center is available and beneficial to students at all levels of competence, both individual and small group tutoring is offered free of charge. Trained tutors who have excelled in the courses in which they are providing assistance offer tutoring in a number of subjects, including, but not limited to, Biology, Chemistry, Nursing, Spanish, Math, and Music Theory. In addition, tutors are capable of providing assistance with various academic skills such as time management, test-taking, textbook reading, note-taking and memory enhancement. The Center is open afternoons and evenings four days a week, Monday through Thursday, in addition to Sunday evenings. Although some students are faculty referrals, self-referrals are most welcome.

Supplemental Instruction (SI) is a program that targets “high risk courses” rather than “high risk students.” The University pays trained Supplemental Instruction Leaders to attend selected class lectures, take notes, read course material, then plan and conduct two 1.5 hour review sessions outside of class each week. The SI review sessions are interactive and utilize a variety of collaborative learning techniques as they combine how-to-learn with what-to-learn. Students acquire effective study strategies as they review course material and prepare for tests. The sessions are not remedial, but benefit all who attend. Statistical data suggest that students who attend SI sessions earn one-half to a full letter grade higher than those who choose not to attend..

Academic Accessibility. Students with disabilities requiring accommodation in classes, programs, or services can arrange for adjustments through the Office of Academic Accessibility. Students are required to self-identify, present current documentation of eligibility (generally no older than 3-4 years) and specify needed accommodations. Following verification of eligibility, an accommodation profile is

developed with the student. Students are then provided with a document verifying their eligibility and the accommodations for which they qualify. For campus-based courses, students may submit a copy of their accommodation letter to any instructors from whom they wish to request accommodations. They must discuss with their instructor how the accommodation will be provided. That dialogue should continue periodically throughout the course, especially if further adjustments are necessary. Failure to verify need for eligibility early in the semester may limit the student's options for completing course requirements because accommodations cannot be provided retro-actively.

Students who think they may have a disability are encouraged to meet with the Director of Academic Accessibility. All communication remains confidential. Contact: Ms. Amy Slody, ext. 7258. For more information refer to the Office of Academic Accessibility web site.

Academic Updates. When a student's progress in a course is at risk (e.g., low test scores; missing assignments; lack of attendance), the faculty member is encouraged to initiate an "Academic Update." Academic Updates forms are now available on-line to faculty for the purpose of informing students that they are performing poorly or are failing a given course. After the faculty member completes the form, it is submitted and distributed to the student, the student's academic advisor, and appropriate Residence Life staff. This alert is intended to motivate a student to seek the appropriate assistance and to notify those members of the campus community who may be in regular contact with the student.

Academic Definitions

Bachelor of Arts. The B.A. degree is conferred for completion of a program with focus on broad and liberal education in the humanities, arts, social sciences, and sciences. Curricula leading to the B.A. emphasize ways of knowing and approaches to understanding consistent with the liberal arts. B.A. requirements typically promote broad preparation within the discipline and among related fields.

Bachelor of Science. The B.S. degree is conferred for completion of a program with focus on in-depth education in the sciences, social sciences, or professional fields. Curricula leading to the B.S. emphasize ways of knowing and approaches to understanding consistent with the sciences and/or professional or pre-professional preparation. B.S. requirements typically promote depth of preparation within a discipline and/or related disciplines.

Specialized Degrees. Messiah University may offer specialized degrees such as Bachelor of Science in Nursing (B.S.N.), Bachelor of Science in Engineering (B.S.E.), etc. Such specialized degrees will be treated as Bachelor of Science degrees.

Major. A prescribed set of courses and other requirements recommended by the department and approved by the Community of Educators as a valid representation of the area of study. Generally these courses focus on a specific academic discipline; however, there are some interdisciplinary majors which include work from two or three disciplines. Satisfactory completion of this prescribed set of courses leads to a degree in that area of study.

Double Major. Students may complete more than one major within the normal timeline and requirements for each baccalaureate degree. A student pursuing a double major must determine which major is the primary major and which is secondary. The primary major determines whether a B.A. or a B.S. will be granted. Each major must have 24 unique credits. Unless additional requirements are met (see "Dual Degree"), a student completing a double major receives only one diploma and one degree representative of the primary major. The primary major is also the standard by which QuEST General Education, other requirements, and the degree are determined.

A **dual degree** is the concurrent awarding of two different majors each with a different baccalaureate degree type, e.g., a B.A. and a B.S. In order to graduate with dual degrees, the following conditions must be met: each major must have 24 unique credits; the student completes the general education requirements related to each major; and completes at least 30 additional credits beyond the larger baccalaureate degree program. Since Messiah's baccalaureate programs range from 123 to 133 credits, anyone completing two degrees must complete 153-163 credits. Students who complete these requirements will be issued two diplomas, one for each degree earned.

Subsequent Degree. See COE Handbook.

Minor. A minor is a prescribed set of courses which focuses on a particular academic discipline or area of study. The goal is to allow the student to develop some depth of understanding in that discipline or area of study. Students are not required to complete a minor. To earn a minor, a student must attain a minimum grade point average of 2.0 for the courses listed as meeting requirements for the minor, and at least 12 credits must be unique to the minor. A student may complete more than one minor. At least one third of the course work must be taken at Messiah. More information and the appropriate forms are available through the Office of the Registrar.

Concentration. A prescribed set of courses in a sub-discipline of a major or closely related discipline consisting of a minimum of 12 and a maximum of 36 credits. Students may complete the requirements for more than one concentration, as long as there is a minimum of eight unique credits in each concentration. All completed concentrations will be noted in the student's transcript. See department listings for requirements.

Certificates. A credit-bearing certificate is a prescribed set of courses leading to a credential that should be focused on a defined set of skills or structured expertise. Often a certificate reflects an emerging area of expertise in demand in the marketplace, or professional development requirements that are necessary to stay current. A certificate does not constitute an entire degree program, but it is a separate credential. As such, certificates are accessible to both degree and non-degree seeking students. Certificates should not be confused with the process of professional certification awarded by governmental and professional agencies for teaching and other fields.

Emphasis. A prescribed set of courses in a subdiscipline of a major or closely related discipline consisting of a minimum of 12 credits of requirements. Emphases will not be noted in the student's record or transcript.

Academic Integrity Policy. Personal integrity is a behavioral expectation for all members of the Messiah community: administration, faculty, staff, and students. Violations of academic integrity are not consistent with the community standards of Messiah University. These violations include:

- **Plagiarism:** Submitting as one's own work part or all of any assignment (oral or written) which is copied, paraphrased, purchased, or generated from another source, including online sources, without the proper acknowledgment of that source. Examples: failing to cite a reference, failing to use quotation marks where appropriate, misrepresenting another's work as your own, etc.
- **Cheating:** Attempting to use or using unauthorized material or study aids for personal assistance in examinations or other academic work. Examples: using a cheat sheet, altering a graded exam, looking at a peer's exam, having someone else take the exam for you, sharing information about exams, using any kind of electronic mobile or storage devices (such as cell phones, PDA's, Blackberry, iPods, iPhones, iPads, Flash drives, DVD's, CD's, photocopy pens) for unapproved purposes, communicating via email, IM, or text messaging during an exam, using the internet, sniffers, spyware or other software to retrieve information or other students' answers, etc.
- **Fabrication:** Submitting altered or contrived information in any academic exercise. Examples: falsifying sources and/or data, etc.

- **Misrepresentation of Academic Records:** Tampering with any portion of a student's record. Example: forging a signature on a registration form or change of grade form.
- **Facilitating Academic Dishonesty:** Helping another individual violate this policy. Examples: working together on an assignment where collaboration is not allowed, doing work for another student, allowing one's own work to be copied.
- **Computer Offenses:** Altering or damaging computer programs without permission. Examples: software piracy, constructing viruses, introducing viruses into a system, copying copyrighted programs, etc.
- **Unfair Advantage:** Attempting to gain advantage over fellow students in an academic exercise. Examples: lying about the need for an extension on a paper, destroying or removing library materials, etc.

The full policy is published in the Student Handbook and the University communicates the policy to students via the new student orientation program. However, primary responsibility for knowledge of and compliance with the policy rests with the student.

Classification of Students

Students pursuing a degree program shortly after completing high school are classified by year, based on earned credits:

- a. First-Year Student: Satisfaction of entrance requirements
- b. Sophomore: Twenty-four (24) earned credits
- c. Junior: Fifty-seven (57) earned credits
- d. Senior: Eighty-seven (87) earned credits

Students not pursuing a degree (enrolling in courses for enrichment) are unclassified.

Conditionally Admitted Students

Conditionally admitted students are new students who have not met the regular entrance requirements. These students are required to register for a two-credit developmental Academic Strategies course and limited to 14 credits. Conditionally admitted students must meet the usual GPA levels for academic good standing, probation and suspension.

Enrolled

A student is enrolled at Messiah University if they are registered for any credit-bearing course offered by Messiah University as of the first day of class of the term or by an off-campus program affiliated with Messiah University. A student is considered to be continuously enrolled if they are enrolled for consecutive semesters.

Students admitted for limited or special programs designed to meet their particular needs but not leading to graduation are considered non-matriculated, non-degree seeking, or visiting students, depending on the nature of their program.

Full-time Status

Degree-seeking students who carry an academic load of 12 or more credit hours are considered full-time students, charged at the full-time student rate, and eligible for financial aid as full-time students. Audited courses are excluded from the academic load calculation for full-time status. Exceptions are made for students whose disabilities are confirmed by the Office of Academic Accessibility (OAA) as requiring

consideration of this policy. OAA will recommend an adjusted standard of “full-time” for a particular student based on knowledge and documentation of the student’s disability.

Note: In order to maintain financial aid eligibility, all students must meet the standard of Satisfactory Academic Progress outlined elsewhere in this catalog and available on the [Financial Aid Office’s web site](#).

Part-time Status

Students who carry an academic load of less than 12 credit hours are considered part-time students, charged at the part-time student rate per credit hour, and eligible for any financial aid open to part-time students.

Students admitted for limited or special programs designed to meet their particular needs but not leading to graduation are considered non-matriculated, unclassified, or visiting students, depending on the nature of their program.

Overload

Policy:

Any student taking more than 18 credits per semester must first obtain the approval of the student’s academic advisor and the Registrar. Moderate requests for overloads are generally granted if the student has a grade point average of 3.0 or better. Students must complete an Academic Policy Petition available on the Registrar’s Office web site to request such overload. Additional tuition will be charged by the credit hour at the overload rate for each credit above 18.

Visiting Students

Visiting students are technically students who are matriculated at another institution, who have received permission from that institution to attend Messiah University. Visiting students receive their financial aid from their home institution and intend to transfer their Messiah University credits back to their home institution.

Credit

Definition of Credit Hour

A credit hour is a unit of academic work consisting of fifty (50) minutes of instructional time, or two (2) or three (3) such periods of laboratory work per week, throughout the standard 15-week semester. In addition to the in-class work, the student is expected to spend two hours outside of class. For terms other than the standard 15-week semester, an equivalent amount of time is required.

Transfer Credit

Credit for academic work completed at another institution may be awarded based upon the following criteria:

1. The student must arrange for the transfer institution to send an official transcript to the Messiah University Office of the Registrar.
2. Transfer institutions within the United States must be regionally accredited. International transcripts require a third-party evaluation from an organization such as World Education Services (WES), National Association of Credential Evaluations Services (NACES), or Association of International Credential Evaluators, Inc. (AICE).
3. Only those courses in which a grade of “C” (2.0) or better has been earned are eligible for

transfer.

4. Transfer credits are not computed into the student's GPA. The policy on repeating courses in order to improve the student's grade point average does not apply to transfer credit.

5. The number of transfer credits earned and the name of the institution will be indicated on the Messiah University transcript. Individual course titles and grades will not be listed.

Transfer Credit for Military Service Policy

Credit for experience completed during military service may be awarded based on the following criteria:

1. The student must provide proof of military service, including dates of service and branch of service.
2. Upon proof of service, student may receive two (2) credits toward the General Education Wellness requirement as transfer credit.
3. Transfer credits are not computed into the student's GPA. The policy of repeating courses in order to improve the student's grade point average does not apply to transfer credit.
4. The number of transfer credits earned and the name of the military branch of service will be indicated on the Messiah University transcript. Individual course titles and grades will not be listed.

Advising

General Guidelines

1. Personal student-faculty association provides the small university with unique opportunities to influence students. The concept of faculty as role models takes an added meaning in this setting.
2. All students, new and returning, need to feel that they belong. Faculty advisors can do much to help students acquire and maintain this sense of belonging.
3. The success of an advising program is dependent on the participation of everyone. It is a team effort.
4. Every faculty member is in a position to help students. The potential for each faculty advisor to help students requires faculty accessibility and availability.
5. An advisor cannot make decisions for an advisee, but he/she can be sympathetic, an understanding listener, and can offer various suggestions and possible solutions to the student's questions or concerns. A faculty advisor is commissioned to do an interpretive, preventative, and sometimes a corrective job.

Academic Calendar

The undergraduate academic calendar at Messiah consists of two semesters, one in the Fall, and one in the Spring. These semesters have eight weeks of instruction, a one week break, and eight additional weeks of instruction. There is an additional, optional Summer semester.

Fall semester

The Fall semester begins in late August and ends mid-December. There is a one week Fall break mid-semester in addition to a Thanksgiving break.

Spring semester

The Spring semester begins in mid-January and ends late April/early May. There is a one week Spring break mid-semester in addition to an extended weekend for Easter.

May term

Students may elect to take a 3-week cross-cultural May term course as part of their Spring semester. For those students, the Spring semester ends in early June. Since May term is considered a part of the Spring semester, students are charged additional tuition at the overload rate only for each credit above the 18 credits allowed for the second semester.

Summer semester

Messiah University offers an optional online summer semester. Online courses are offered in two 6-week terms, with different courses offered each term. The summer semester is helpful for students wishing to create space in their fall or spring schedules, or to graduate in less than eight semesters, or to make up a course. Students may take up to six credits in each 6-week term, for a total of 12 credits for the summer semester. Messiah University does not offer institutional financial aid for regular summer classes, as they are offered at a significant discount from the traditional Fall and Spring semesters. For most forms of financial aid, a student must be enrolled at least half-time. Half-time at Messiah University for undergraduate students is defined as at least six (6) credits. The Federal Stafford Loan, or an alternative student loan, is often the only form of financial aid that a student will receive during the summer.

Since Summer Session is not considered a part of the second semester, fees for Summer Session courses are charged independent of fees from the regular academic year.

Course Listing and Numbering

Course Numbering System

Courses are listed by department or discipline, the alpha prefix in the course number indicates in which department and discipline the course is offered. The course numbering is to be interpreted by the following principles:

- a. All courses are numbered at either a 100, 200, 300 or 400 level. These numbers represent a progression in academic rigor and expectation.
- b. Lower-level courses (numbered at 100 and 200) are introductory and foundational and designed for first-year and sophomore-level students.
- c. Upper-level courses (numbered at 300 and 400) are designed for junior- and senior-level students. Upper-level courses –
 - (1) presuppose exposure to the content of a prior course(s) at the “lower-level” and
 - (2) possess an academic rigor and a level of expectation for student work and performance that is significantly greater than for lower-level courses (e.g., demonstrate an advanced level of independence, writing ability, and critical thinking skills in learning difficult content material within various academic disciplines).
- d. The first digit of the course number represents the generally accepted level of the course (i.e., 100-199 courses are first-year level courses).
- e. Students may generally take courses which are at their level or below. Upon advice of their advisor, students may take courses which are one level above their classification.

Cross-Listing of Courses

Cross-listed courses have multiple department prefixes for the same course. Students register for the course under the prefix for which credit is to be given.

Majors

Selecting a Major

A student should select a major no later than the second semester of the sophomore year to allow adequate time for meeting graduation requirements in that major.

Declaration or Change of Major

Policy: After having declared a major, students who wish to register for another course of study must obtain the signatures of their current advisor, of the department chair in the major field to which they wish acceptance, and their new advisor, who is assigned by the new department chair. Changing a major must be done through the Office of the Registrar.

Procedure:

- (1) The student obtains the Change of Major Request card from the Office of the Registrar, obtains the signature of the Department Chair in which the new major is housed, and returns it to the Office of the Registrar.
- (2) The Office of the Registrar makes the change and asks the former advisor to send the student's advisor file (paper or electronic) to the new advisor.

Individualized Major

Individualized majors are designed for students who have special interests that are not accommodated by any combination of existing majors or minors at the University. Students may develop a proposal for an individualized major that combines various academic resources available to all Messiah University students (including external programs). Each proposal must stand on its own as a unique, individual initiative of the proposing student. Students completing an individualized major will graduate with a B.A. degree.

The following guidelines apply to all individualized majors.

- a. Parameters for the Individualized Major
 - a. The individualized major must be between 36 and 72 credit hours chosen from at least two different disciplines offered at Messiah.
 - b. Two disciplines will be considered the primary disciplines and the major curriculum can have no fewer than 12 credit hours from each of these disciplines.
 - c. At least 18 credit hours must be chosen from courses numbered 300 or higher.
 - d. Each individualized major must include a senior-level (400) capstone course. This may be an existing course or an independent study course supervised by one of the faculty advisors.
 - e. Each individualized major must include an existing writing intensive course from the primary disciplines from which the individualized major draws upon.
 - f. No more than two courses can be taken as an independent or directed study.
 - g. The student must meet all the General Education requirements and all other requirements for graduation (e.g., residency requirements, total required credits, etc.). Any proposed overlaps with General Education must be approved by the Associate Dean of General Education and Common Learning and cannot exceed 12 credits.
 - h. In order to propose an individualized major, the student must have a cumulative GPA of 3.0.
 - i. The individualized major may be proposed after the student has completed 30 credit hours. No proposal will be accepted after the student has completed 72 credit hours.

b. Development of the Proposal.

The student will develop a proposal for the major in conjunction with two faculty advisors from the two primary disciplinary areas, with one of these two faculty advisors to serve as the student's primary faculty advisor. The proposal must include the following elements:

- a. A title for the major that does not duplicate the name of any existing majors or minors and clearly captures the nature of the proposed program of study.
- b. An explanation of how the major will enhance the student's personal learning goals and objectives including possible connection with vocational and/or graduate school interests.
- c. Curriculum sheets (similar to those found in the Advising Handbook for existing majors) describing which specific courses will meet the major requirement and which will meet the University's General Education requirements.
- d. A semester by semester plan for completing the required courses. Note that any planned independent or directed study courses must be pre-approved.
- e. The proposed courses must fit together logically and demonstrate the coherence, breadth, and depth which is characteristic of a major. Proposals that simply piece together existing majors and minors are not acceptable.
- f. A statement that clearly explains how each required course satisfies the University's learning objectives for all majors (i.e., CWEO #4) and contributes to achievement of the goals and learning objectives of the proposed major (as articulated in point b).
- c. **Approval Process.** The primary faculty advisor will convene and chair an ad hoc committee composed of the two faculty advisors, the Registrar, and the Associate Dean of General Education and Common Learning to review the proposal. If approved by this committee, the individualized major proposal will be forwarded to the Department Chairs of the two primary disciplines represented in the proposal for review and approval. Following the approval of the Chairs, the proposal will be reviewed by the Dean of the School of the primary advisor for final approval. If approved, it will be officially recorded as the student's declared major and a copy of the approved proposal will be sent, for information purposes, to the Dean of the School housing the other primary discipline. In order to assure prompt processing of a completed proposal, the approval process should take no longer than two months during the academic year from the time it is submitted. In the event that a sponsoring faculty advisor's employment ends, the department chair of the respective department will either supervise the completion of the major or appoint another faculty member capable of supervising it to completion.

Minor

Definition: A minor is a prescribed set of courses which focuses on a particular academic discipline or area of study. The goal is to allow the student to develop some depth of understanding in that discipline or area of study.

- a. Students are not required to complete a minor.
- b. Minors require a minimum of 18 semester hours in a discipline other than that of the student's major.
- c. A student may complete more than one minor.
- d. To earn a minor a student must attain a minimum grade point average of 2.0 for the courses listed as meeting the requirements for the minor.

- e. At least 12 credits of the minor must be unique to the minor (not shared with the major, a second minor or the General Education requirements).
- f. At least one-third of the total credits must be taken at Messiah.

Procedures for completing a Minor:

- a. Information about available minors and minor curricular requirements can be found in the catalog, university website or obtained from the student’s advisor or department chair.
- b. Students are encouraged to discuss their interests in a minor with their advisor during registration times. If the student has specific questions, they can contact the chair of the department (or the designee) in which the minor is housed.
- c. Once the completion of all minor requirements has been verified, the minor will be recorded on the student’s final transcript. If, at the time of graduation, a student has not completed the requirements for a minor, the minor designation will be added to the student’s transcript if he or she completes the requirements for the minor within one calendar year of the graduation ceremony at which his or her most recent Messiah degree has been awarded.

Registration

Policy: During the semester, currently enrolled degree-seeking students may preregister for the upcoming academic semester. (Students register for Spring semester (including the optional May term) in the Fall, and register for the Summer and Fall semesters in the Spring.) Students must consult with their assigned academic advisor and obtain his/her approval before preregistering for classes. Prior to registration, students must ensure their accounts are up to date with Student Financial Services and their health records file is current with the Engle Health Center. Students with a Chapel Hold must receive clearance from the Campus Ministries Office. Any student not in compliance with these requirements will be blocked from registration.

Procedure:

- 1. Registration materials, including the Schedule of Classes are available online approximately one week before Academic Advising begins.
- 2. Students meet with their academic advisor to discuss course selections for the upcoming registration. The Advisor and student agree upon the appropriate courses to be taken.
- 3. At the conclusion of the advising meeting, the advisor releases an advising hold enabling the student to register at his or her appointed time. Registration appointment times are generated by Information Technology Services and the Registrar’s Office based on the student’s earned credits and current semester course schedule.

Rationale: Uniformity of procedure is required to handle the large volume of students and ensure fairness to all students. A student/academic advisor meeting is required to ensure the student is taking courses appropriate to his or her major, interests and abilities. Proof of payment is required to ensure that students do not build up large balances which they are unable to pay. Clearance from the Engle Health Center is required to ensure that all health records are complete and accurate for each student in case of emergency. Obligations with the Campus Ministries Office are an essential component that requires the student’s commitment.

Drop/Add (Change in Registration)

- a. Students may add courses through the end of the second week of classes. After initial registration, changes of courses to the original schedule should be discussed with the advisor. After the first week of classes, changes in courses require the approval of the instructor(s) and advisor via the

electronic “Drop/Add” form available on the Registrar’s Office web site.. The requests are submitted to the Registrar’s Office in accordance with the published deadlines.

b. Procedure:

- (1) Students contact their advisor prior to changing courses on their schedule.
- (2) Subsequent to the contact with their advisor, students log on to the online registration system (through the end of the first week of classes) to make schedule adjustments.
- (3) Beginning with the second week of classes, all changes to the student’s schedule will be processed through the Registrar’s Office with the electronic “drop/add” form. The approvals of the instructor(s) and advisor are required.
 - (a) Courses may be dropped during the first third of the term and will not appear on the student’s transcript.
 - (b) During the middle third of the semester, a grade of “W” is recorded and appears on the student’s transcript. The withdrawal does not affect the student’s GPA.
 - (c) During the final third of the semester, withdrawals are not permitted, except for medical or other emergencies. Unofficial withdrawals are recorded with a grade of F.
- (4) After the first five class days of the fall or spring semester, a fee of \$25.00 per processed Drop/Add/Withdraw Request is charged to the student’s account.
- (5) Specific deadline dates for course changes are posted each semester on the Registrar’s website. All requests for dropping or adding courses after the published deadlines, due to neglect or failure to follow the procedures outlined above, will be reviewed by the Registrar. A late registration fee will be assessed if the change is approved.

- c. Courses may be dropped during the first third of the term and will not appear on the student’s transcript. Students may withdraw from a course during the second third of the term. Courses from which a student has withdrawn will be indicated with a “W” on the student’s transcript. Dropped or Withdrawn courses do not affect the student’s grade point average. After the first five class days of a semester, a fee may be assessed for each course change requested. Specific deadline dates for course changes are posted each semester on the Registrar’s Office web page.

Rationale: Drop/Add procedures emphasize the importance of student responsibility in the advisor/advisee relationship while providing flexibility and convenience to the process. Changes occurring later in the semester ensure students have the opportunity for counseling.

Special Courses and Credit Programs

Independent Study Guidelines

Students wishing to explore a particular area of study outside a classroom setting may apply for an independent study. Projects must be carefully designed and directed toward a specific goal under the direction of a qualified faculty member who meets regularly with the student during the study. A faculty member may direct a total of two independent and directed studies during a given semester and three during a given summer. The fee of \$250 per credit applies for independent study.

Procedure:

- (1) The student completes the electronic “Application for Independent Study” for each project undertaken. This electronic form is available on the Registrar’s Office web site. A course syllabus must be attached to the Independent Study Application. Approvals from the academic advisor, sponsoring faculty, department chair, and school dean are required.

- (2) The student submits the signed application and a copy of the proposal to the Registrar's office
- (2) The Registrar's office reviews the completed application and, if approved, the student is registered for the course by the Registrar's Office. Once approved, the student, academic advisor, sponsoring faculty, department chair, and school dean have access to the Independent Study Application and supplemental materials through Dynamic Forms.
- (3) Grades are submitted by the faculty member to the Registrar along with other grades at the end of the semester.

Directed Study Guidelines

Junior and senior students who need to complete a catalogued course at a time other than when it is offered may apply for a directed study. Each study must be done under the supervision of a qualified faculty member who will meet with the student from three to five hours per credit hour of the course. A faculty member may direct a total of two independent and directed studies during a given semester and three during a given summer. The fee of \$250 per credit applies for a directed study.

Procedure:

- (1) The student completes the electronic "Application for Directed Study" for each course. This electronic form is available on the Registrar's Office web site. A course syllabus must be attached to the Directed Study Application. Approvals from the academic advisor, sponsoring faculty, department chair, and school dean are required.
- (2) The Registrar's Office reviews the completed application. If approved, the student is registered for the course by the Registrar's Office. Once approved, the student, academic advisor, sponsoring faculty, department chair, and school dean have access to the Directed Study Application and supplemental materials through Dynamic Forms.
- (3) Grades are submitted by the faculty member to the Registrar along with other grades at the end of the semester.

Rationale: To allow students to complete certain catalogued courses at times when they are not normally offered and to ensure that the proper amount of supervision is given to each student completing a directed study.

Co-curricular Activities Guidelines

- a. Students participating in a full session of an intercollegiate sport may register, at most, twice for one credit per season of involvement. However, only one credit may be applied toward the General Education Wellness requirement. Students participating in two intercollegiate sports may apply only one toward the General Education Wellness requirement. A maximum of one credit may be counted as an elective. Credit may be granted only during the semester in which the completion of participation occurs and will not be awarded after the fact.
- b. Students participating in music ensembles register for 0.5 credits during the semester of participation. If the registration is for credit, a pass/fail grade will be recorded.
- c. The editors of the University newspaper, *The Swinging Bridge*, and the yearbook, *The Clarion*, may register for the course ENGL 392 Student Publications Practicum (1). Permission of the advisor is required before enrollment. The course may be repeated for a total of four (4) credits.

Credit Earned Through Examination Programs

Messiah University awards credits earned through the approved testing programs listed below. A maximum of 32 credits may be earned by all forms of testing. (Approved by action of the Dean's Council,

2/8/97.)

Advanced Placement (AP)

Students who have taken university level courses in high school may possibly receive university credit for them by taking the AP Examination of the University Entrance Examination Board, if their high school offers it. Granting such credit may reduce the number of semester hours students need to complete at Messiah to earn a degree. Official transcripts of AP test results should be sent to the Messiah University Registrar's Office for evaluation.

International Baccalaureate (IB)

IB is a curricular program with university entrance examinations which may be taken in any country and recognized in any country. Students who have taken IB courses in high school may possibly receive university credit for them by taking the IB examination. Granting such credit may reduce the number of semester hours students need to complete at Messiah to earn a degree. Official transcripts of IB test results should be sent to the Messiah University Registrar's Office for evaluation.

Credit by Examination

- (1) Messiah University offers a limited number of courses by which students may earn credit for the course by taking a "challenge" exam in lieu of the course. The Registrar's Office will maintain a list of courses which may be challenged.
- (2) Procedure
 - (a) Prior to taking the exam, the student must obtain an application form from the Registrar's Office.
 - (b) The student presents the form to the appropriate department chair who will make arrangements for the challenge exam or designate the examining professor.
 - (c) The student pays the credit by examination fee at the Business Office, obtaining the approval signature showing that payment was made prior to taking the challenge exam.
 - (d) When the exam has been taken, the department chair or examining professor will indicate the grade (Pass/Fail) on the application form and return it to the Registrar's Office.
 - (e) The Registrar's Office records credit on the student's transcript if the examination is passed. If the student fails the exam, no record is made on that student's transcript, and the student will be required to take the courses or credits that were to have been waived by successful completion of the exam. Completion of the course is not required if it was intended to be elective credit.

College Level Examination Program (CLEP)

Students who wish to verify knowledge of college level work in a given discipline may take the CLEP test (Messiah is not an approved test site) and receive CLEP credit on the transcript. These credits are evaluated by the Registrar's Office and may be applied to general education and major requirements. Any student considering CLEP opportunities should contact the Registrar's Office for further information.

Department Honors Courses

To encourage scholarly initiative and in-depth investigation within a limited area of study, Messiah University provides able students with an opportunity to pursue honors courses within their major. Students may qualify for an honors course by 1) earning a GPA of 3.50 for all courses completed at the University to the middle of their junior year and 2) meeting all other requirements as prescribed by the department (e.g., GPA for major courses).

Each department offering an honors course prescribes the nature of the work, the point at which it shall

begin, and whether the credit in whole or in part may be counted toward fulfillment of a student's major requirements. The Department must also approve a student's work for a given semester before permission can be given to proceed with the next semester's work.

A minimum of four and a maximum of six semester hours of credit in honors courses may be earned at the rate of three hours per semester. Only the grades of A, A-, and B, B+ will carry credit. If the honors work is of such high quality as to merit the grade of A, the student will graduate with honors in the discipline, provided he/she has completed six semester hours.

Students participating in the University Honors Program may meet their senior honors project requirement through an approved Department Honors Course.

Graduation with honors in a discipline is recognized at Commencement and is noted on the student's diploma and academic transcript. Only senior students may participate in Department Honors courses.

Class Attendance

Class attendance is important to student learning and hence central to Messiah University's educational mission; therefore, regular class attendance is expected. However, the University recognizes that certain types of educational activities take place outside of the classroom and can lead to conflicts with class attendance. The purpose of this policy is to spell out guidelines for student attendance and absence, in general, and to clarify policy and protocol related to four out-of-class educational activities, in particular. These "University-endorsed" activities requiring University review and approval include:

- Intercollegiate athletic contests (this does not include regularly scheduled practices or club sports)
- Artistic performances (this does not include regularly scheduled rehearsals)
- Academic field trips
- Student presentations at professional conferences

Introduction

- a. Class attendance is important to student learning and hence central to Messiah University's educational mission; therefore, regular class attendance is expected. *This entails physical attendance in the classroom for courses designated as operating in a face-to-face modality.*
- b. However, the University recognizes that certain types of educational activities take place outside the classroom and can lead to conflicts with class attendance. The purpose of this policy is to spell out guidelines for student attendance and absence, in general, and to clarify policy and protocol related to four out-of-class educational activities, in particular. These "University-endorsed" activities requiring University review and approval include:
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Course Attendance Policies

Class attendance is important to student learning and hence central to Messiah University's educational mission; therefore, regular class attendance is expected. This entails physical attendance in the classroom for courses designated as operating in a face-to-face modality. However, the University recognizes that certain types of educational activities take place outside the classroom and can lead to conflicts with class attendance. Guidelines for student attendance and absence are provided below.

1. Individual course policies on class attendance are left to the discretion of the instructor (or academic department). Individual faculty members (or academic departments) are expected to

design and implement attendance policies that are supportive of the University-endorsed educational programming outside of the classroom and, to the extent it is possible, provide ways a student can make up the portions of the courses missed due to student participation in University-endorsed educational activities without penalty.

2. Attendance policies must be conveyed to students at the beginning of the semester and must be delineated in the syllabus. Attendance policies must address the following: (1) the extent to which physical or remote attendance is required, (2) the role absences play in the attendance policy, (3) the policy for making up absences, and (4) the impact of attendance/absences on student evaluation.
3. Faculty should be respectful of student schedules and the class time assigned to other courses. Faculty have been given an assigned time for their courses, and it is, in general, expected that instruction will take place within this designated time. Any exceptions must be stated in the syllabus.
4. If an out-of-class requirement in one course conflicts with the class time of another course, the faculty member making the out-of-class requirement must provide other ways for the student to fulfill the requirement of the required out-of-class requirement.

Procedures and Protocol for Absences related to University Endorsed Activities

1. Steps will be taken to minimize student absences related to University-endorsed activities. Toward this end:
 - a. All athletic contest schedules will be reviewed and approved by the Athletic Director and the Faculty Athletic Representative prior to the beginning of the semester.
 - b. All artistic performance programming will be reviewed and approved by the Dean of the School of Arts, Culture and Society prior to the beginning of the semester.
 - c. All student absences due to student professional presentations will be reviewed and approved by the appropriate School Dean at least one month prior to the activity.
2. All parties involved will be made aware of the scheduled absences well ahead of the date(s) of absence.
 - a. To the extent it is possible, absences due to University-endorsed activities will be identified at the beginning of each semester or term.
 - b. At the beginning of each semester, the Faculty Athletic Representative will send all teaching faculty the approved dismissal times for all scheduled athletic contests.
 - c. At the beginning of each semester, the Dean of the School of Arts, Culture and Society will send all teaching faculty a schedule of approved performances which may result in class conflicts.
3. Upon receipt and approval by the appropriate supervisor, anyone sponsoring the University-endorsed educational activity must complete the "Instructor/ Academic Notification System" that is available in Banner Self Service under the Faculty and Advisors menu two weeks prior to the activity. This form must be filled out in full, and upon completion will be sent to each faculty member that is impacted.
4. Students participating in University-endorsed activities are still required to directly notify in advance the faculty member of any class they must miss. This must be done at least a week prior to the planned absence. Students are also responsible for meeting with the faculty member to

work out the conditions for completing any work or assignments in advance with the attendance policy of the course.

5. No University-endorsed activities that result in student absences may be scheduled on the days before or after any University break or during finals week. Any exceptions must be approved by the Athletic Director, Vice Provost for Student Success and Engagement, School Dean or Provost.
6. It is understood that flexibility in these procedures will be granted in the case of conference and NCAA playoffs, or approved late-developing opportunities for student performance or presentation.

Absences due to student illness or critical illness/death in immediate family

For class absence due to personal illness, it is the student’s responsibility to notify the instructor(s) prior to the class, if possible. If prior notification is not feasible, the student should ensure that instructors are notified by the end of the day on which the classes meet.

For deaths in the family and similar emergencies, students should notify the Office of Student Success and Engagement via [email](#) or call (717) 796-5234 with the pertinent details. The Office of Success and Engagement will notify the faculty of the student involved; therefore, it is important that the student notify the office as soon as possible.

For longer-term medically related absences, students should refer to the policies for Medical Leave, Medical Absence, and Medical Incomplete. Students needing these longer-term medical absences should reach out proactively to the Engle Center. See the Academic Catalog for additional details.

Appeal Process

If a student believes that the above policy has not been followed, he or she can appeal to the Provost.

Make-Up Work

It is the prerogative of the individual instructor to decide whether students who miss a class examination are granted make-up privileges. Any arrangements are to be made between the student and the instructor.

Grading Policy

Grading System

The grading system presently in use can be roughly divided into three major categories: letter grades, pass/fail grades, and auxiliary symbols.

a. Letter Grades:

Letter grades carry a quality point value and are used in the computation of semester and cumulative grade point averages (GPA).

Quality/ Characteristic	A – Honor Outstanding	B – Excellent Above Average	C – Good Average	D – Poor Below Average	F – No credit Unsatisfactory
1. Interest and ability to communicate.	Almost always shows creativity, sound judgment, intellectual curiosity and	Frequently shows creativity, sound judgment, intellectual curiosity and	Shows sustained interest and is able to communicate well and understandably	Exhibits interest. Marginal performance in communicating	Shows sub-minimal interest. Does not communicate clearly enough to get ideas

	communicates correctly and clearly	communicates correctly and clearly			across.
2. Performance skills of discipline.	Almost always analyzes critically, synthesizes creatively, uses facts in original thinking, and generalizes logically	Frequently analyzes critically, synthesizes creatively, uses facts in original thinking, and generalizes logically	Usually produces viable generalizations and satisfactorily organizes data	Commits errors in fact and judgment when discussing material and has difficulty going beyond gathering and examining facts and data	Does not comprehend the concepts and ideas which are a part of the course. Does not gather and examine facts and data satisfactorily.
3. Techniques of scholarship.	Shows sound techniques in all projects and uses knowledge effectively	Shows sound techniques in most projects and uses knowledge effectively	Good understanding of techniques in most projects.	Demonstrates minimal competence in the techniques of scholarship.	Does not use sound techniques of scholarship.
4. Meeting requirements of the course in preparation, outside reading and class participation, etc.	Meets or exceeds stated course requirements with distinction in all aspects.	Meets or exceeds stated course requirements with excellence in most aspects.	Meets stated course requirements with adequate performance in all aspects.	Meets stated course requirements with adequate performance in some aspects.	Does not meet the standards and requirements.

Performance Level of Different Letter Grades

Letter Grade	Meaning	Quality Point Value
A	Honor-Outstanding	4.0
A-		3.7
B+		3.3
B	Excellent-Above Average	3.0
B-		2.7
C+		2.3
C	Good-Average	2.0
C-		1.7
D+		1.3
D	Poor-Below Average	1.0
F	Failure- No Credit	0.0

b. Pass/Fail Grades

Undergraduate students may take a maximum of four courses on a Pass/Fail (P/F) basis. Pass/Fail courses cannot be used to meet a major, minor, or QuEST/General Education requirement. It must be a free elective. Pass/Fail grades do not carry a quality point value and are not used in the computation of semester and cumulative grade point averages.

P = Pass. Used only for a passing grade in a Pass/Fail course or when a student selects to register for a course on a Pass/Fail basis. The cutoff for pass shall be “C–”. Semester credits in which the student receives a P count toward the total required for graduation, but not toward the grade point average.

F = Failure. The grade of F is a failing grade and is included in the computation of both the semester and cumulative GPA. F applies under the following conditions:

- (1) The student has not done passing work for the term;
- (2) The student does not do passing work (earning a D+ or less) in a course graded on a pass/fail basis;
- (4) The student fails to clear an Incomplete within the specified time frame;
- (5) The student unofficially withdraws from a course, i.e. does not complete the necessary work and fails to make a provision for an Incomplete.

c. Auxiliary Symbols:

Auxiliary symbols do not carry a quality point value and are not used in the computation of semester and cumulative grade point averages (GPA).

W = Withdrawal. Given to a student who withdraws from a course(s), or from the University, or from specific courses in cases of emergency during the final third of the semester.

I = Incomplete. Used only when a student cannot, for emergency reasons, complete a course on schedule.

AU = Audit. Used only when a student wishes to regularly attend a course but not receive University credit or a grade for work in the course.

Grade Point Average (GPA):

- a. Semester GPA: The GPA for each semester is calculated from the graded courses attempted during that semester. Credit hours in which the student receives a “P” count toward total credits earned but not toward the GPA. Credit hours in which the student receives an “F” are calculated in the GPA.
- b. Cumulative GPA: This is the grade point average for all courses taken at Messiah University.
- c. Factors Affected by GPA:
 - (1) Graduation: 2.0 cumulative GPA for all work; 2.0 cumulative GPA in major requirements.
 - (2) Acceptance into specific programs: Engineering, Nursing, and Teacher Education programs have cumulative and/or major GPA requirements as part of admission into the program. Consult the University catalog for specific GPA requirements for each program.
 - (3) Graduation Honors:
 - (a) summa cum laude: Cumulative GPA of 3.90 or above
 - (b) magna cum laude: 3.60 but less than 3.90 cumulative GPA
 - (c) cum laude: 3.30 but less than 3.60 cumulative GPA
 - (4) Department Honors Courses: 3.50 cumulative GPA
 - (5) Dean’s List: 3.60 semester GPA or higher, based on twelve (12) or more graded hours.
 - (6) Academic Probation:
 - (a) First Year (0 - 23 credits): below 1.8 cumulative GPA.

- (b) Sophomore (24 - 56 credits): below 1.9 cumulative GPA.
- (c) Junior or Senior (57 credits or above): below 2.0 cumulative GPA.

Incomplete Grades

- a. Policy: A grade of incomplete is recorded for a student only when, for emergency reasons, the course cannot be completed on schedule. To receive credit for the course, the unfinished work must be completed within four (4) weeks of the last day of final exams.
- b. Procedure:
 - (1) When the student presents a legitimate emergency request to his instructor and the instructor agrees to it, the instructor records a grade of I (incomplete) in online grading. He/ She will then be prompted by a dialogue box to submit the reason for the incomplete grade. A system generated confirmation e-mail is sent to the instructor and the Registrar's office for review. When a student completes the course work, the instructor must submit a grade change through the Registrar's Office with the student's updated final grade.
 - (3) If a course is not completed within the extended timetable, the incomplete grade is converted to an "F". Any exceptions to the following timetable must be cleared in advance with the instructor and the Registrar. The incomplete grade resolution deadline is the end of the fourth week following the close of the part of term in which the incomplete grade was awarded.
- c. Rationale: This policy serves as a necessity of keeping grade records up-to-date, provides for student emergencies, and yet provides a reasonable deadline to help students avoid doing two (2) semesters' work at the same time. It also discourages procrastination.

Auditing

- a. Policy - Students who wish to attend a course but not receive college credit or a grade for their work may audit the course. This option requires students to attend the class on a regular basis. Students are not required to do any of the course work (though they may opt to do so) or take tests. A student must drop the course if he or she decides not to attend the course since it appears on the transcript as an audited course. The option of auditing courses is open to both full-time and part-time students. (Note: Students should be alerted to the fact that courses taken as audit cannot be included for Financial Aid purposes. Encourage those students to contact the Financial Aid Office.)
- b. Procedure
 - (1) Declaration of the audit is done at the time of registration through Self-Service Banner. .
 - (2) Students may change from credit to audit and vice versa during the online drop/add period during the first five days of the term.
 - (3) The Student Financial Services bills audit credits at the published tuition rate for audits.
 - (4) When the course is complete, the student's transcript indicates the symbol "AU" and the name of the course—no credit or letter grade is given.
 - (5) If the student decides not to attend the course, he or she must drop the course within the drop/add deadline so it will not appear on the student's record.
- c. Rationale - Accommodates degree program students who want to broaden their horizons into a field of interest or part-time students who wish to take a course purely for their own interest and do not need to work for college credit.

Change of Grade

- a. If after final grades have been assigned and submitted, and an error in a student's grade is discovered by the instructor, or brought to the attention of the instructor by the student, the instructor submits a "Grade Change Request" via Self Service Banner (Faculty and Advisor Tab). All changes of grades must be accompanied by a rationale and be approved by the Registrar's Office by the end of the following semester.
- b. A student's final grade may not be raised by doing additional assignments after the course has concluded or by revising previously submitted assignments.

Repeating Courses

A student may only repeat any course in which a grade of D+, D, or F was received. With repeated courses, the second grade and credits count in the calculation of the student's cumulative GPA, but the original grade and course will remain on the student's transcript. All repeat courses must be taken at Messiah University, including any other approved off-campus program, subject to the assessment of course equivalency. (Revised by action of the Curriculum Committee 2/27/98)

- a. It is the responsibility of the student and advisor to monitor the registration for repeated courses.
- b. Both occurrences of repeated courses will be marked on the transcript.
- c. The credits earned for the first grade remain in the term and cumulative calculations until completion of the repeated course. At the end of the term in which the course is repeated, only the credits and grade earned for the second occurrence are used in the calculation of the student's cumulative GPA and total credits earned.
- d. Students need to be advised of possible financial aid or athletic eligibility consequences of repeating courses for which credits have been earned. Students should contact the Financial Aid Office for specific information.

Grade Appeal Procedures

If a student disagrees with a grade which has been given in a particular course, and it has been determined that the grade recorded was not in error, the student may initiate the grade appeal process.

a. Informal discussion between student and instructor.

If the discussion results in a grade change, a grade change request is submitted to the Registrar's Office by the instructor. If the matter is not resolved to the student's satisfaction, the student is referred to the department chair.

b. Informal discussion between student and department chair.

The student should informally discuss the matter with the department chair. The department chair should discuss the concern with the instructor. If the discussions result in a grade change, a grade change request is submitted by the instructor. If the matter is not resolved to the student's satisfaction, the student is informed that there is a formal appeal procedure. The first informal contact with the department chair must be before the end of the semester following the semester in which the grade was earned.

c. Formal discussion between student, instructor, and department chair.

The department chair should arrange a meeting to discuss the matter with the student and instructor together. If this discussion results in a grade change, a grade change request is submitted to the Registrar's Office by the instructor. The student should be

informed in writing of this decision. If the matter is not resolved to the student's satisfaction, the student should be informed in writing of this decision, along with options available to the student.

d. Student appeal in writing to department chair.

This written appeal must be made within ten (10) working days of the written notification to the student by the department chair of the outcome of the formal discussions. Within ten (10) working days of the student's appeal, the department chair must inform the instructor of the appeal and provide a copy of the student's appeal. The instructor has ten (10) working days to provide a written explanation of the student's grade. The department chair has ten (10) working days to convene a departmental meeting (without the instructor or student present) to review the case.

e. Student appeal in writing to the School Dean.

If the decision of the department is not to the student's satisfaction, the student may appeal the decision to the dean. This appeal must be made in writing, within ten (10) working days of the department chair's letter to the student. The dean shall investigate carefully and render a decision in writing within thirty (30) days, which shall be final.

f. Cases involving the department chair.

In any case where the instructor is the department chair, another member of the department will serve in the role of the chair in these proceedings.

Transcripts

The student's permanent record of courses taken and grades achieved comprise the academic transcript. Courses taken at other institutions are indicated as transfer courses. Credits taken at all other colleges and universities are entered as transfer credits and are not computed in the student's grade point average.

a. Request for Transcript

- (1) Policy: Academic transcripts are issued by the Registrar's Office upon a student's written request and, depending upon expediency of service requested, must be accompanied by payment (see messiah.edu/registrar). The student's financial account with the University must be cleared before any transcripts are issued.

Academic Petitions

To request an exemption to an academic policy:

- a. The student completes the "Academic Policies Petition" available on the Office of the Registrar's web site.
- b. The student complete the form and obtain the signatures of their academic advisor and department and return the petition to the Office of the Registrar. .
- c. The petition goes to Registrar's Office for review and decision. The Registrar's office communicates the decision to the student via email. The student, academic advisor and department chair will have access to the completed petition via Dynamic Forms.

To request an exemption or substitution for a QuEST/General Education requirement:

- a. The student completes the "QuEST/General Education Policies Petition" available on the Office of the Registrar's web site.
- b. The student's academic advisor and department chair review the petition.
- c. The petition goes to Registrar's Office and/or the Assistant Dean for General Education and

Common Learning for review. The Registrar's office communicates the decision to the student via email. The student, academic advisor and department chair will have access to the completed petition via Dynamic Forms.

Alternate Course Request due to Disability

Qualifying students must register with the Office of Academic Accessibility and be declared eligible for accommodations under the Americans with Disabilities Act prior to submitting petitions for consideration. There must be a direct relationship between the student's documented disability and the reason for requesting course alternatives.

- a. Secure an "Alternate Course Petition" from the Office of Academic Accessibility (available online).
- b. Complete the form and submit the petition to the Office of Academic Accessibility.
- c. Students who have previously been approved for ADA accommodations will only need to submit the petition. Students not presently ADA-eligible will be required to verify eligibility before a petition will be considered.
- d. If approved, and following approved guidelines for course substitutions, the Director will specify course alternatives as approved by the respective departments and/or the General Education Committee and return the petition to the student.
- e. Obtain signatures of the student's department chair and academic advisor(s) and submit the completed petition to the Office of the Registrar.
- f. Copies will be distributed to the student, the student's academic file, the academic advisor, and the Office of Academic Accessibility.

Co-Curricular Eligibility

Purpose of Academic Probation

The purpose of placing a student on academic probation is to help the student reorder his/her priorities and time commitments in the direction of greater emphasis on academic studies, in order to help that student attain the University's minimum standards of scholarship as soon as possible. Any full-time student who fails to maintain the standards of scholarship (defined as completion of 24 or more credits per academic year and maintaining a cumulative grade point average of 1.8 while earning the first 23 credits, 1.9 for 24–56 credits, and 2.0 for 57 credits or more) will be placed on academic probation.

The Registrar is responsible for notifying students of their being placed on academic probation immediately upon completion of the grading process for the period of study leading to such status. A student on academic probation will be advised to take a maximum of 14 credits per semester while on probation.

Co-curricular Eligibility during Academic Probation

A student who has been placed on academic probation shall be ineligible for participation in the following cocurricular activities:

- Intercollegiate athletics and club sports
- Theatre productions
- Music ensembles
- SGA officers
- Officers in any SGA-chartered organization, including team managers of Outreach Teams
- Music Ministry Teams
- Resident Life Staff

- WVMM Radio Station staff

Students placed on academic probation as a result of fall semester grades shall become ineligible for cocurricular participation on the first class day of the Spring Semester. Students placed on academic probation as a result of spring semester or summer session grades shall become ineligible for participation on the first class day of the fall semester. The only exceptions will be those cases where such participation earns academic credit in a college course and that course meets a graduation requirement for the student's major.

Students who are removed from academic probation as a result of fall, spring semester, or summer grades shall become eligible for cocurricular participation as soon as grades are officially recorded for that period of study.

Exam Policies

Class examinations. When students miss a pre-announced class examination, the instructor decides whether they will be granted a make-up privilege.

Final examinations. The final exam period is an important and integral part of the semester. Students are expected to attend their final exam period at the scheduled time.

Requests for final exam changes. Any student having more than eight credit hours of final examinations in any one day may request a change in his/her final exam schedule by e-mailing the Registrar's Office. All requests for rescheduling exams must be submitted to the Registrar at least one week prior to the first day of final examinations. The Registrar's Office confirms the student is scheduled for more than eight credit hours of final examinations in one day. Once the Registrar has approved the request, the student may contact his/her instructor to reschedule the exam at a time that is mutually acceptable to both the instructor and the student. It should be noted that travel arrangements are **not** a sufficient reason for exceptions to the final exam schedule.

Notification of Rights under Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act of 1974 (FERPA) provides students who are or have been "in attendance" at Messiah University certain rights with respect to their "education records." A student is deemed to be in attendance at the University if he/she is enrolled and is either physically present for classes or receives instruction through distance learning. Education records may be paper or electronic and are defined generally as records, files, documents, and other materials maintained by the University which contain information directly related to the student and from which the student can be personally identified.

Rights granted to a student under FERPA include:

1. The right to inspect and review the student's education records;
2. The right to request the amendment of the student's education records that the student believes inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA; and
3. The right to provide written consent before the University discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

At Messiah University, education records include cumulative academic records, grades, course schedules, most student disciplinary records, and most student account and financial aid records. Education records do not include records that are created or received by the University after an individual is no longer a student in attendance and are not directly related to the individual's attendance, as well as grades on peer-graded papers before they are collected and recorded by an instructor.

Education records do not include records of administrative or instructional personnel which are kept in the sole possession of the maker, are used only as a personal memory aid, and are not accessible or revealed to any other person except a temporary substitute for the maker of the record; records which are made or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his/her professional capacity, made or maintained only in connection with treatment of the student, and disclosed only to individuals providing the treatment; financial records of parents; or records created and maintained by the Department of Safety for the purpose of law enforcement. These records, then, may not be inspected by students without the consent of the custodian of the records.

Students who wish to inspect their education records should indicate such to the University official responsible for maintaining the particular record. FERPA requires that an appointment be made for the student to inspect the record within 45 days of the date of the request. If, upon examination, the student believes the record to be inaccurate or misleading, the student may file a written request that the University official amend the record. If the official decides not to amend the record as requested by the student, the student will be advised of his or her right to request a hearing. A hearing, to be conducted by a disinterested person appointed by the President, will be held within 30 days of receipt of a written request. The student will have a full and fair opportunity to present relevant evidence. A written decision will be rendered within two weeks of the date of the hearing.

Except to the extent that FERPA authorizes disclosure without consent, a student's education records will be released to his or her parents or designee only with the written consent of the student or upon receipt of certification that the individuals have claimed the student as a dependent on their most recent income tax return. Any student who does not want his or her education records released to parents/guardians must give written notification to the Registrar. This notification will remain in effect until revoked in writing by the student.

FERPA permits (but does not require) the University to release "directory information" without student consent to anyone requesting information unless a student instructs the University not to release such information. Directory information means information contained in the education record of a student that would not be considered harmful or an invasion of privacy if disclosed. Directory information at Messiah University includes a student's name, home address, campus address, all telephone numbers on record, high school attended, campus e-mail address, photograph (available on the University's internal, secure, online system), dates of attendance, degree for which a student is a candidate, academic major and minor, academic advisor, academic awards or honors, class year, full-time/part-time status, and weight and height for members of athletic teams. Directory information does not include a student's social security number or student identification number. Without student consent, a student's social security number or student identification number may not be used by itself to authenticate identity or to gain access to education records.

The University may provide lists of student names by religious preference (if known) once each year in response to inquiries by local churches. The University does not release directory information to outside organizations for commercial solicitation.

Any student who does not want directory information released must indicate as such on the Directory Profile, located on the Personal Information tab in Self Service Banner. You can complete this information anytime. This profile will be effective until rescinded by the student. The University will not disclose directory information of a former student if the student instructed the University not to release directory information while he/she was in attendance.

FERPA authorizes the University to disclose personally identifiable information from education records without a student's consent to appropriate parties, including parents/guardians of an eligible student (even if the student is not a dependent for income tax purposes), in connection with an emergency if knowledge of the information is necessary to protect the health or safety of the student or other individuals. In making

this determination, the University may take into account the totality of the circumstances pertaining to a threat to the health or safety of a student or other individuals. If the University determines that there is an articulable and significant threat to the health or safety of a student or other individuals, it may disclose information from education records to any person whose knowledge of the information is necessary to protect the health or safety of the student or other individuals. The University must keep a record of the threat, the basis for its determination, and the names of the parties to whom the information was disclosed.

FERPA also authorizes the University to disclose personally identifiable information from education records without a student's consent in several other specific situations. Some of these are as follows: (1) to comply with a judicial order or a lawfully issued subpoena, including an ex parte court order under the USA Patriot Act; (2) to another institution that has requested the records and in which the student seeks or intends to enroll or is already enrolled so long as the disclosure is for purposes related to the student's enrollment or transfer; (3) to designated federal or state agencies; (4) in connection with financial aid for which the student has applied; (5) to alleged victims of any crime of violence or a non-forcible sex offense of the final results of a disciplinary proceeding conducted by the University against the alleged perpetrator of that crime or offense, regardless of whether the University concluded a violation was committed; (6) to anyone – not just the victim – the final results of a disciplinary proceeding if it determines that the student is an alleged perpetrator of a crime of violence or non-forcible sex offense and the student has been found to have violated the University's rules or policies; (7) information concerning a student who is required to register as a sex offender provided under a state sex offender registration and campus community notification program; (8) to organizations conducting studies for or on behalf of the University for purposes of developing, validating, or administering predictive tests, administering student aid programs, or improving instruction; and (9) to school officials determined by the University to have a legitimate educational interest.

A "school official" is a person employed by the University in a faculty, administrative or staff position, or a contractor, consultant, volunteer, or other party to whom the University has outsourced institutional services or functions. The contractor, consultant, volunteer, or outside service provider may be considered a school official under this paragraph provided that the outside party (1) performs an institutional service or function for which the University would otherwise use employees; (2) is under the direct control of the University with respect to the use and maintenance of education records; and (3) is subject to FERPA requirements governing the use and re-disclosure of personally identifiable information from education records.

A "school official" may also be a member of the Board of Trustees; or a student serving on a University committee or assisting another school official in performing his or her tasks. A school official has a "legitimate educational interest" if the official needs to review an education record in order to fulfill his or her professional responsibility.

The University will use reasonable methods to identify and authenticate the identity of parents, students, school officials, and any other parties to whom it discloses education records. It will ensure that a school official obtains access to only those education records in which he/she has a legitimate educational interest.

Academic information will be released when a FERPA Release Form is completed and returned to the Registrar's Office, Messiah University Suite 3007, Mechanicsburg, PA 17055 and the student has set-up a privacy word in the Challenge Response System (<http://www.messiah.edu/crs>) and shared that word with the individual/s noted on the FERPA release.

FERPA provides a student the right to file a complaint concerning alleged failures by the University to comply with the requirements of FERPA with Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue SW, Washington, DC 20202. This policy is maintained by the Messiah University Registrar and was last amended July 2017.

PARENTAL NOTIFICATION POLICY

Messiah University may elect to notify the parents/guardians of students in the event of serious health concerns such as illness, injury, or hospitalization. As noted above, the University may notify a student's parents or guardians in the event of an emergency when it is deemed to be necessary to protect the health or safety of the student or other persons even if the student is not a dependent for income tax purposes.

Messiah University may also notify parents/guardians of students under the age of 21 for disciplinary violations related to alcohol or controlled substances or when a student is suspended or expelled, even if the student is not a dependent for income tax purposes. In disciplinary matters, parents/guardians are notified only after students are determined to be responsible for a violation of University rules or standards. In all matters, the context of individual circumstances is considered when deciding whether to contact parents/guardians. When possible, students will be given the opportunity and encouraged to discuss the situation with their parents/guardians prior to the institution's notification.

VIII. HONORS PROGRAM

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Overview

The Honors Program exemplifies Messiah University's commitment to academic excellence and fostering an intellectually rigorous Christian world view, with the goal of equipping young men and women for lives of leadership and service.

The Honors Program is designed for students who demonstrate high scholarly ability early in their academic career. The curriculum is comprised of general education honors courses and a Senior Honors Capstone. In addition to the credit-bearing curriculum, students meet regularly at events outside of the classroom to discuss timely issues and interact with special campus guests. Throughout the academic year students also have opportunities to participate in on- and off-campus academic and cultural activities. Upon graduation students receive special recognition at commencement, and on their transcript and diploma.

Students from all of the university's applied and liberal arts majors are eligible to participate. Moreover, in keeping with the university's commitment to educating the whole person, students in the Honors Program are encouraged to participate in the university's many co-curricular opportunities.

Application Process

The Honors Program is open to first-year students. Minimum qualifications generally include a minimum score of 1360 on the SAT, 29 on the ACT, or 91 on the CLT as well as a high school GPA of 3.9 or above. No special application is required. As part of the regular admission process, students who meet the minimum eligibility requirements are evaluated for the program. From the eligible pool of candidates, students are selected to attend a Scholarship Day, and learn about the Honors Program, interview with a faculty member, and write a short essay. Afterward, the interview, short essay, and other application materials will be evaluated, and offers extended to approximately 100 students to enter the program in the fall. Students selected for the Honors Program receive either full- or partial-tuition scholarships.

On Campus

During Welcome Week, first-year students in the Honors Program and their family members participate in a welcome reception where they meet the other new students and learn more about the Honors Program. Throughout their time at Messiah University, academic advising is provided by faculty in the department of their chosen major. The Director of the Honors Program provides additional academic advising and information regarding requirements and activities associated with the Honors Program.

Curricular Requirements

1. **FIRST YEAR:**
Fall Semester: First-Year Seminar (IDFY 102H – HONORS section); and
Spring Semester: Created and Called for Community (IDCR 151H – HONORS section).
2. **SOPHOMORE or JUNIOR YEAR:**
One honors interdisciplinary QuEST course meeting either Ethics/Pluralism/World Views, Non-Western Studies; or Science Technology and the World.

A second interdisciplinary QuEST course from a different category, which does not need to be an honors section. Depending on the major, this second requirement may be waived. When waivers exist, if the major has one or two waivers for ID courses, the student must take their honors section from the non-waived category. If three ID waivers exist, the student has their choice of which area to take their honors section. Honors ID course credit requirements can only be met at the Mechanicsburg campus or through a Messiah University HONORS study-abroad course.

3. **JUNIOR or SENIOR YEAR: Senior Honors Capstone.** This requirement can be met by one of two ways:
- a. Senior Honors Project, which can be taken either within the student's department or within the Honors Program (HONR 498/499) for 4-6 credit hours. This is a two-semester project that can take a variety of forms. All projects must fulfill the parameters for the Senior Honors Project.
 - b. Senior Honors Seminar (HONR 497) for 3 credit hours. An interdisciplinary capstone seminar for students in the Honors Program. The thematic focus of each seminar will be defined by the professor and will include intensive reading, discussion, and a written research paper.

Parameters for Senior Honors Projects (option a above):

- Projects must be of graduate-level quality;
- Projects must reflect the methodological, theoretical, and substantive expectations for scholarship in the project area;
- Projects must be worked on over two consecutive semesters and total 4 to 6 credit hours;
- Projects may begin during the junior or senior year;
- Projects must be approved by the Director of the Honors Program and by a faculty supervisor during the semester preceding the start of the project;
- Projects must culminate with some type of public dissemination, such as a thesis defense, presentation, demonstration, or performance.

Note: Participants planning to graduate early may not begin their Senior Honors Project until they have completed two years in the Program.

Non-Credit Bearing Requirement: Honors Activities

Every semester, the Honors Program hosts and co-hosts many activities. These activities take many forms--lectures, panels, presentations, discussions, readings, plays, concerts, trips, and more--and appeal to a wide range of interests and majors. Each semester that students are enrolled on the Mechanicsburg campus, they must attend at least two events to fulfill this requirement of the program.

Book Of The Year Program

Students during their first year in the Honors Program together read a book over the course of the academic year that has been chosen by the program. The Book Of The Year changes from year to year, but all the books that are part of this program are essential books that have proven to be transformative for countless readers. The BOTY program offers an opportunity to explore fundamental questions along with a great circle of readers and discussants through the ages. Moreover, it contributes to the maturity of intellect, character, and Christian faith among participating students, and builds bonds among them as they read and converse together. After attending lectures and seminars on the BOTY, students write a paper on it in their Honors section of *Created and Called for Community*.

Eligibility Requirements for the Honors Program

Participation in the Honors Program requires that all participants meet the grade point average requirement for either the Trustees', President's or Faculty Scholarship. For President's and Faculty Scholarship recipients, renewal of these scholarships is contingent on maintaining a 3.2 GPA as a first year student and a 3.4 GPA each subsequent year. For Trustees' Scholarship recipients, renewal is contingent on maintaining a 3.3 GPA as a first year student and a 3.6 GPA each subsequent year. Participation in the Honors Program is also required for scholarship renewal. If a student is removed

from the Honors Program he or she cannot be readmitted. All Honors Program participants must meet the preceding GPA requirements upon completion of all course work in order to be certified, at the time of graduation, as a Honors Program graduate.

X. OFFICE of ACADEMIC ACCESSIBILITY

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Disability Laws in Post-Secondary Education

The Rehabilitation Act

Title V of The Rehabilitation Act of 1973 is generally regarded as the first civil rights legislation on the national level for people with disabilities. Section 504 of The Rehabilitation Act is a program access statute. It prohibits discrimination on the basis of disability in any program or activity offered by an entity or institution receiving federal funds. Specifically, it states:

No otherwise qualified person with a disability in the United States... shall, solely on the basis of disability, be denied access to, or the benefits of, or be subjected to discrimination under any program or activity provided by any institution receiving federal financial assistance.

Under Section 504, institutions are required to appoint and maintain at least one person to coordinate its efforts to comply with the requirements of Section 504 (Section 504 Coordinator). This individual or office has the ongoing responsibility of assuring that the institution does not discriminate against individuals with disabilities. At Messiah University, the established officer for student issues is the Director of Academic Accessibility (OAA). For employees, the Director of Human Resources serves as the Section 504 Coordinator.

The Americans with Disability Amendments Act (ADAA)

The ADA is a federal civil rights statute that prohibits discrimination against people with disabilities. There are four sections of the law: employment, government, public accommodations, and telecommunications. The ADAA provides additional protection for persons with disabilities in conjunction with the Rehabilitation Act of 1973. The ADAA is designed to remove barriers which prevent qualified individuals with disabilities from enjoying the same opportunities that are available to persons without disabilities. Congress strengthened the ADA to ensure that individuals with disabilities are not inadvertently excluded from coverage under a variety of conditions.

Postsecondary institutions are covered in many ways under the ADA. Employment is addressed by Title I, accessibility in relation to public spaces is addressed in Title II. Title III addresses private entities (including Messiah University), and miscellaneous items are addressed under Title V and Title IV.

The ADA in Relation to Section 504 of the Rehabilitation Act

Institutions that receive federal funds (including Messiah University) are covered under Section 504. The ADAA does not supplant Section 504, but in those situations where the ADAA provides greater protection, the ADAA standards apply. Therefore, postsecondary institutions must adhere to both the Rehabilitation Act and the Americans with Disability Amendments Act.

What Advisors Need to Know

It is unlawful to discriminate against an individual with a disability. Regardless of your beliefs concerning a student's ability to perform within a given major or course of study, no student is to be excluded from registering for courses for which they are otherwise qualified to participate. With *reasonable* accommodations, support services from appropriate campus resources, and needed assistive technology, many students are able to perform successfully in their studies. The disability community often states that the biggest barrier they face is negative attitudes. Keep an open mind, offer advice and counsel, but do not assume inability or exclude from opportunity.

If a student is having difficulty and raises the question of having a learning problem of some type, it is always appropriate to ask if the student would like to discuss the possibility of accommodation with someone in the Office of Academic Accessibility (OAA). While most students come to college with a previous diagnosis, a surprising number of students have learned compensatory strategies that allowed them to be successful in high school but that will not be adequate for favorable outcomes in college. If

you believe the student is struggling, please do not hesitate to explore his/her strengths and weaknesses with him/her. If you feel you do not have the ability to help the student, please refer him/her to the Engle Center, the Office of Academic Accessibility, or the Director of Student Success to get the student help as soon as possible. Students who self-disclose a disability and exhibit need for accommodation(s), but who are not registered with OAA, should be encouraged to call, email, or stop in at the Office of Academic Accessibility to schedule an appointment to discuss eligibility. While instructors are required to implement approved accommodations based on a student's supported claim of disability, they are not obligated nor encouraged to provide accommodations which have not been formally approved by OAA. Instructors who accommodate without required evidence of a need (a formal accommodation letter from OAA) lead the student to falsely believe that others may do the same. Ultimately, students who are accommodated without going through proper channels run into conflict with other instructors who hold them to the standard procedures. These conflicts should be avoided. Accordingly, please follow policy and be certain the student has the required accommodation letter before allowing an accommodation, and then make sure you are only granting the accommodation provided for in the accommodation letter.

As an advisor, you may find that a student complains about an instructor's refusal to accommodate. Always inquire about the manner in which the student made the request for accommodation and whether he/she has registered with OAA. If something seems to be amiss, you are encouraged to contact OAA immediately so the claim can be properly investigated.

Advising for Accommodations

Alternate Courses

The Office of Academic Accessibility has been authorized by the administration to make decisions about a student's eligibility for alternate courses to meet general education requirements. A recurrent request is for courses to replace the 9-credit language/cultures requirement. Because the most common disabilities are learning disabilities, and they often include reading and other language-related limitations, students may indeed be found eligible to complete alternate coursework to meet the 9-credit language/cultures requirement.

Students will always have to complete the general education requirement for a Non-Western Cultures course in addition to any coursework stipulated in this policy. Students may be authorized by the Office of Academic Accessibility to complete a course on cultural anthropology in addition to either one other Non-Western Cultures course followed by a Cross-Cultural course or two other Non-Western Cultures courses.

In some cases, students are given transfer credits for completing college-level courses in American Sign Language. At this time, those courses must always be transferred into Messiah. Please make sure those courses are approved to be transferred prior to embracing the student's desire to attend specific classes.

Health and physical education requirements may affect some students with chronic health or orthopedic impairments. In those cases, OAA will work with the Department of Health, Nutrition and Exercise Science to develop a series of appropriate courses and activities. Students will need to work with the Office of Academic Accessibility to ensure registration can occur in the appropriate course/s.

Few other types of alternate courses have been requested. For program-specific courses, any modifications must be made by the departments, usually in conjunction with the Office of Academic Accessibility. In no case are departments expected to fundamentally change the nature of a given course or to lower performance standards.

Class Load

Some students have disabilities that significantly impede the learning process, making it important to

reduce their work load to a manageable level. Students may be encouraged to begin their college career with just 12 credits. They can then either add more credits their second semester if they have been successful, or they can reduce credits in order to be successful.

It is appropriate to question students about their credit loads and to let them know a smaller credit load may mean more time at the institution which can equate to bigger debt. Being realistic is appreciated and advised. However, *advisors should not apply pressure on a student to add more courses if the student has been approved for a reduced course load because of his/her disability.* After having an open and honest discussion with the student about his/her course load and to ensure the advice is fully understood, advisors should send follow up emails to their advisee noting their recommendations, the advisee's response, and the final decision regarding total credits for the semester.

Financial aid may be impacted by a student's decision to enroll in fewer courses, especially when the annual earned-credit total falls below 24 semester credits. While this is the bar for federal funding, state and local support is not eliminated by carrying a lighter load, though it may be adjusted to a per credit basis. Please strongly encourage the student to talk with Financial Aid about any implications a reduced course load could have on their financial aid package.

Students carrying fewer than 12 credits per semester are generally considered to be part-time students. In the case of a student whose disability requires a lighter load, the University can legally declare a lesser level as full-time for that student. The Office of Academic Accessibility will notify the Registrar and Financial Aid of this decision and confirm with an advisor when requested by the student. This arrangement allows the student to remain fully eligible for on-campus housing, meal plans, health and counseling services, and all other benefits afforded to full-time students.

Frequent Absences Due to Illness and Chronic Health Problems

The number of students with chronic health or psychological conditions who are enrolling in college is increasing. Often, the nature of chronic conditions is that they are cyclical, recurring after periods of relative stability. During those recurrences, the student's health or mental state may prevent him/her from attending class on a daily basis. In those cases, an accommodation granting flexibility in attendance may be authorized. This accommodation, however, will only be granted if it does not fundamentally alter the nature of the course.

It is wise to know which programs/classes are tolerant of absences and those which are not. For example, missing lectures where students can obtain notes from a classmate may be less significant to course success than missing a class in a high-participation, performance-based course. Please encourage students to talk to professors prior to course enrollment to ensure that this accommodation can be granted in a particular class and to allow the student and faculty member ample time to develop strategies for making up missed class time (i.e. writing a reflection paper after listening to the audio of the class). When the accommodation can be implemented, OAA will work with the student and faculty member to make arrangements for class recordings.

Further, students with chronic illness may experience periods of deep pain or fatigue. These students typically have periods during the day where they are better able to maintain focus and attention. Please be aware of fatigue issues (it's okay to ask!) and take that into consideration when planning course schedules. It will be important to work with students to determine any patterns to avoid, such as scheduling back-to-back classes, scheduling evening classes versus day classes, or requiring too many credits based on the perceived need to make good progress through a program.

Length of Class Sessions

Some students have great difficulty with longer class sessions. If a student has trouble remaining focused for over an hour, it is best to avoid night classes and those that meet just once per week for several hours. Try to be aware of student-expressed concerns and to work with them to avoid problems.

Priority Registration

Some students are authorized to register for classes earlier than their peers. This accommodation is used judiciously and is based on a student's need to accommodate a variety of scheduling issues, such as the need to rest between classes, slow ambulation requiring more time for campus travel, and certain start or end times for classes due to health conditions. There is potential for abuse of this privilege, but OAA attempts to verify the essential nature of the request before it is authorized.

When approved, OAA notifies the Registrar early each semester and provides a list of eligible students for advance notification purposes. The Registrar informs the advisor and student of the modified schedule and directs them to schedule an advising session early enough to work out a reasonable schedule based on program and personal needs, as appropriate.

If a student is authorized for early registration but does not complete the process prior to open enrollment, the student should generally complete registration on the standard schedule that semester. Having missed an opportunity, the student does not automatically lose that privilege for subsequent semesters.

Additional Recommendations

Career Planning Issues and Internships

Perhaps no other topic is more likely to raise conflict than that of questioning a student's choice of major. Some intensive encouragement may be appropriate as long as advisors understand that this is advising. Ultimately, the student has the right to choose courses, contingent upon having completed prerequisites and any other admission requirements. When the student's disability will clearly conflict with what you know to be the essential functions of his/her desired profession, it is wise to help the student move toward a personal assessment, available at the Career Center. Internships also offer students a practical look at what his/her intended profession might entail. However, finding suitable internship settings can, at times, be difficult. Be careful to strike a balance between advising toward a suitable career and discouraging a student from moving ahead with his/her personal interests. When working with certain students, such as those with a diagnosis on the autism spectrum, you may want to consult with OAA for assistance, in addition to speaking with someone in the Career Center.

Record Keeping and Written Communication

In order to avoid any confusion on advice given, it is important to follow up with the advisee about the details of your advising sessions. All too often, students misunderstand the contents of an advising meeting. Reasons for misunderstandings range from auditory processing deficits, to anxiety disorders or poor short term memory. To ensure the student fully understands and properly remembers information covered during the advising session, please send the student (not the parent) a written communication detailing the advice given, the measures proposed, and the action plan to be followed. This practice gives the student a chance to receive the information in both verbal and written form, while at the same time offering protection to you by demonstrating appropriately relayed guidance.

Sharing Disability Information

Information about a student's disability is confidential. Only those individuals who need to know the information are informed, unless the student chooses to share otherwise. Advisors/instructors must never reveal information about a student's disability, either directly or by thinly-veiled comments, in ways that allow other students to identify the student as disabled. Disability information is considered an educational record, and thus, information can only be released if it is to further an educational purpose.

Students are encouraged to provide a copy of their accommodation letter to their advisor as early as possible in their collegiate career to facilitate accurate and appropriate advising. However, the student is

under no obligation to provide this letter. At no time, however, will accommodations be applied in a retroactive manner.

Final Thoughts

Remember that your advising is an essential part of the preparation process for students. Informed advice can be essential to helping young people find a match between their strengths and the career to which God may be calling them. In spite of your broader knowledge in the field of study and your greater range of experience, remember that students often surpass their own perceived abilities. Also, as new and improved technological aids are developed and become available, there may be assistive technologies that allow students to function in ways that others could not just a few years before. Your wise and caring advice can encourage your students to strive for challenging, yet reasonable, goals while making the most of their time on campus. Your objective should be to advise them on their path without impeding their growth.

XI. INTERNSHIP INFORMATION

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Introduction: What is an Internship?

“An internship is a form of experiential learning that integrates knowledge and theory learned in the classroom with practical application and skills development in a professional setting. Internships give students the opportunity to gain valuable applied experience and make connections in professional fields they are considering for career paths; and give employers the opportunity to guide and evaluate talent.”

-The National Assoc. of Colleges & Employers (NACE)

An internship is a supervised work experience related to a student’s major or career goal for which he/she can earn academic credit. Important elements structured into the experience, which distinguish it from a short-term job or volunteer work, are an intentional self-directed learning strategy, reflection - both verbal and written, and an emphasis on professional development.

Internships should:

Personally: Boost a student's maturity and self-confidence; improve interpersonal skills; prepare for life after graduation; challenge students to consider the integration of faith and values with work; and promote a greater clarity about career decisions.

Academically: Integrate classroom theory with real-life experiences; understand the relevance of course work; increase motivation to learn.

Professionally: Explore a potential career field; develop career-related skills and abilities; gain professional experience; observe professional people and behavior; build a network of professional contacts, potentially developing mentoring relationships; gain a competitive edge for employment or graduate school admission.

Why Experience An Internship For Academic Credit?

- Fulfillment of ELI requirement upon completion of assignments
- Academic accountability - many sites only host students who are receiving academic credit for their experience
- Corresponding coursework helps promotes reflection on and development of personal and professional skills
- Notation on transcript
- Legal protection under Messiah University liability policy
- Support, advocacy and guidance from Internship Faculty Advisor

What's the Difference between a Practicum and an Internship?

- Practica are conducted through academic departments and are supervised by faculty. Practica do not automatically meet a student's ELI requirement. This should be verified with the sponsoring department.
- Internships for credit are conducted through the Career and Professional Development Center (CPDC) and are supervised by CPDC staff.

When Can a Student do an Internship?

- Fall, Spring, Summer (Early 6-week, Late 6-week, or Full Summer)

What is the Credit/Hour Structure for Internships?

1 Credit Hour = 40 hours of work over the semester

2 options: INTE 391 and INTE 394

- INTE 391 = 1-3 credit hours
- INTE 394 = 4-12 credit hours

Notes:

- 1) Internships are normally letter-graded (A-F). INTE 391 (1-3 credits) internships can be done Pass/Fail if the internship is not required by the student's major
- 2) No academic credit can be approved retroactively for any experience.

Who is Eligible?

Students who meet the following criteria are eligible:

- 1) Maintain a cumulative GPA of 2.5 or above. Students with a GPA lower than 2.5 may submit a petition form through the CPDC to be considered for participation in the program.
- 2) Completed at least a minimum of 24 credits.

What is involved in the Internship Class?

The internship class is primarily online and is meant to ensure that students reflect purposefully on their experiential learning. An internship faculty advisor from the CPDC facilitates the course over the semester. It involves:

- Learning objectives and outcomes for the experience
- Assignments involving work reflection logs, resume writing, building a LinkedIn profile, information interviews, an executive summary of the experience
- Evaluations by on-site internship supervisor

Does the Course Look Different if a Second Internship for Credit is done?

Yes, but the course has some of the same components with assignments that are relevant for the new internship experience. Also, data shows increased personal and professional benefits to students who have more than one experience.

Why Would a Student Pay for Credits to do a Summer Internship?

- The course component of the internship experience is delivered in the same way as other summer courses, with an instructor providing grading and feedback
- Students receive the benefit of the educational course content rooted in meaningful reflection as well as support and advocacy through the institution
- In general, credit prices for all summer courses is reduced
- For an internship to fulfill a student's ELI requirement, it must be credit-bearing
- There are more geographic possibilities because the student doesn't have to be on campus

What are the Parameters that Comprise a Quality Internship?

- The experience must be an extension of the classroom: a learning experience that provides for applying the knowledge gained in the classroom. It must not be simply to advance the operations of the employer or be the work that a regular employee would routinely perform.
- The skills or knowledge learned must be transferable to other employment settings.
- The experience has a defined beginning and end, and a professional-level job description with desired qualifications.
- There are clearly defined learning objectives/goals related to the professional goals of the student's academic coursework.
- There is supervision by a professional with expertise and educational and/or professional background in the field of the experience.
- There is routine feedback by the experienced supervisor.
- There are resources, equipment, and facilities provided by the host employer that support learning objectives/goals.
- *Parameters defined by the National Association of Colleges & Employers (NACE).

What is an Advisor's Responsibility in Assisting the Student?

- Check Degree Audit to review if ELI requirement is met, any required internship/practicum credit is met, or if an internship can be done for elective credit
- Assist student in identifying the type of internship for which they would be academically prepared
- Encourage a student to plan early for an internship (3-6 months, minimally), depending on their commitments and scheduling challenges (i.e. athletes, musicians...)
- Direct students to the CPDC website to start the internship registration process and for additional information

- Discuss layering of experiences and benefits of using internships to explore a variety of career options
- Ensure student's understanding about internship/practicum coursework
- Confirm minimum GPA of 2.5 – otherwise department must be prepared to provide an alternative if a student's petition is denied by the CPDC
- Collaborate with CPDC on identifying quality sites

What are Legal/Ethical issues Pertinent to Internships?

Federal law says that if an employment relationship is deemed to be present, the intern must be paid at least the minimum wage and appropriate overtime compensation. However, new court rulings have also expanded protections for unpaid internships. But they still require unpaid internships to (1) be designed primarily for educational purposes and (2) benefit the intern first and foremost.

Students with Disabilities

Messiah University is committed to making reasonable accommodations for qualified students with disabilities. For students planning an off-campus experience, such as a practicum or internship, the University does not have authority over cooperating agencies and cannot therefore guarantee that a student's unique needs can be accommodated. The University will make every reasonable effort to locate a suitable site that does offer the needed accommodations. Students for whom internships are being requested must demonstrate an ability to meet the essential skills of a specific assignment, with or without assistive technology.

How do Students Locate an Internship, and what Assistance is offered?

- Personal network: faculty, friends and family, Messiah University alumni
- Employer connections through CPDC events: Career Expo, Pizza with Professionals series, Into the City, Mocktail Networking Night, etc.
- Personal assistance through career coaching appointments in the CPDC
- Employer directory and internship postings on Handshake, the CPDC's job/internship portal
- Online Job Search Sites – see the CPDC website for internship/job search resources

How Does a Student Register for Credit?

Students need to start the registration process through the Career & Professional Development Center. The internship registration link is on the homepage of the CPDC <https://www.messiah.edu/career> Once the site and student have been approved, the CPDC will submit an override in Falconlink to allow a student to register for INTE 391 or INTE 394. After a student is registered, the course will open in CANVAS. The registration deadlines can be found at https://www.messiah.edu/info/23064/internship_program

International Internships?

Students are able to do an internship internationally. The approval process takes longer as there is more involved in approving a site. A student should ideally start the registration three months before the international internship.

International students may do an internship for credit during the summer semester in their home country

Can International Students do Internships for Credit While in School Here?

An international student can participate in Curricular Practical Training: Curricular Practical Training (CPT) is a type of employment authorization for students in undergraduate F-1 status who wish or need to engage in off-campus employment in their field of study when it is an integral component of their curriculum. It is important for students to remember that CPT is a benefit of the F-1 visa status, not a

right. Permission for international students has several more steps that are required and process is started with the Intercultural Office:

https://www.messiah.edu/info/20703/immigration/2885/curricular_practical_training_cpt

An Employer has contacted me directly about an Internship Opportunity – What Should I do?

- Referral to CPDC staff for assistance
- Consider sharing the [CPDC website](#)

How can Faculty Access the Opportunities on Handshake – Messiah’s Job & Internship Database?

- Carol Hall, Coordinator in the CPDC: CHall@messiah.edu for directions and access

For More Information:

Contact the Career and Professional Development Center career@messiah.edu; 717-691-6016
Joy Fea, Assistant Director for Internships & Faculty Partnerships, CPDC, fea@messiah.edu

XII. PRE-HEALTH PROFESSIONS ADVISING

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Pre-Health Professions Overview

The Pre-Health program is best thought of as an overlay of courses that can be scheduled as part of most majors, with the exception of nursing.

Pre-health professions advising at Messiah University is just that: specialized advising to help students overlay courses that can be part of virtually any major on campus (with the exception of nursing). Because medical programs of all types – medicine, dentistry, veterinary, PA, podiatry, chiropractic, and the list goes on – are looking for broadly educated applicants, at Messiah the choice of major is up to the student. A partial list of the pre-health professions advising choices follow.

Pre-Health Professions at Messiah

- Allopathic and Osteopathic Medicine
- Chiropractic Medicine
- Dentistry
- Forensic Science
- Occupational Therapy
- Optometry
- Pharmacy
- Physical Therapy
- Physician Assistant
- Podiatric Medicine
- Public Health
- Veterinary Medicine

3+ Pre-Health Professions Programs at Messiah (3 years at Messiah with an articulated curriculum at a partner institution)

- Biopsychology (B.S.) / MSOT in Occupational Therapy – Messiah University
- Applied Health Science (B.S.) / MSOT in Occupational Therapy – Messiah University

Planning the Academic Program /Choosing a Major

There is no single, best "pre-health" major. Medical schools are looking for students who have completed specific course work and have performed at a high academic level. We recommend that a student's interest dictate his/her choice of major as long as the prerequisites for medical school admission are met. Because of their natural interest in the sciences, many Messiah applicants to medical school complete a degree in Applied Health Science, Biology, Molecular Biology, Chemistry, Biochemistry (B.A. or B.S.) or Biopsychology.

Some students, however, pursue majors outside of the sciences. ***Medical school admissions personnel unequivocally state that the specific undergraduate major is not a consideration in the admissions process.*** They are interested in the rigor of the courses the applicants have completed and the grades they have earned.

Advising Services

Messiah students who plan to pursue a career in the healthcare professions are assigned **two** advisors: one in their academic major, and our Pre-Health Professions Advisor, Martha Stigelman. It is vital that the student contact her as soon as possible after meeting with you, the academic advisor.

Course Selection, A Generic Framework

To help students plan, the following minimal sequence of courses is recommended. It should be impressed upon the student that this is not the complete list of courses required for the medical program to which they hope to apply. It is a preliminary list of classes that will be supplemented by additional program-specific and school-specific requirements. (Note: Math and Statistics course requirements vary by institution and are not included in this framework.) It is important that all required courses be taken at Messiah. If this is not possible, the student must meet with Martha Stigelman before enrolling at another institution.

FIRST YEAR SEQUENCE**

<u>Fall Semester</u>	<u>Spring Semester</u>
CHEM 105 General Chemistry I	CHEM 106 General Chemistry II
BIOL 170 Cell and Animal Physiology	BIOL xxx
BIOL 171 Biology Cornerstone	

SOPHOMORE YEAR SEQUENCE**

<u>Fall Semester</u>	<u>Spring Semester</u>
CHEM 309 Organic Chemistry I	CHEM 310 Organic Chemistry II
	PHYS 211 General Physics I *

JUNIOR YEAR SEQUENCE**

<u>Fall Semester</u>	<u>Spring Semester</u>
CHEM 410 Biochemistry I	PHYS 202 Intro Physics II*
PHYS 212 General Physics II*	BIOL xxx
PHYS 201 Intro Physics I*	
BIOL xxx	

*In most cases students have the choice of taking intro or general physics, depending on the requirements of their major. Intro Physics I and II are an appropriate, and somewhat easier, choice for most applicants.

** One semester of introduction to psychology (PSYC 101) and one semester of introduction to sociology (SOAN 101), or strong AP scores in these areas must be completed prior to taking the MCAT.

XIII. ADVISING INTERNATIONAL STUDENTS ON AN F-1 VISA

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Advising International Students on an F-1 Visa

The primary category of international students that Messiah University accepts is students who are citizens of a country other than the U.S. and have been admitted entry into the United States on an F-1 Visa. These students have particular requirements that they need to take in order to remain in compliance with their visas.

Commonly Used Terms

Form I-20: Certificate of Eligibility for Non-Immigrant (F-1) Student Status, issued by Messiah University and other approved institutions. The form contains information such as student's major, program start and end dates and student's financial information.

F-1 Visa: An entry permit issued by a U.S. embassy/consulate abroad for students who wish to enter the U.S. for the purpose of pursuing full-time studies.

DSO: This stands for Designated School Official. A DSO is a regular employee of the university approved by the Department of Homeland Security to access SEVIS (see below). A DSO is responsible for issuing Form I-20s; approving reduced course loads, internship opportunities through Curricular Practical Training (CPT) and other work authorizations; and reporting and updating student's information in SEVIS (Student and Exchange Visitor Information System). A DSO is also the one who can endorse a student's Form I-20 for travel.

Maintaining Status: This means the student is complying with regulations pertaining to their F-1 student visa. Students are considered to be "in status" or maintaining status if they are complying with the regulations. If they are in violation of their status they are considered to be "out of status" and therefore, ineligible for certain benefits of their status and at risk of not being able to continue their studies in the United States

SEVIS: The Student and Exchange Visitor Information System is an internet-based automated system that maintains current information on non-immigrant students and scholars. Schools and DSOs must report and regularly update information about students on an F-1 visa in SEVIS, which is accessible to the government and the way that schools are kept accountable.

CPT (Curricular Practical Training): CPT is a program that allows students to gain practical experience in their chosen area of study. This can take the form of paid or unpaid internships that occur on or off campus. The student must go through an approval process that involves their academic advisor and the Career and Professional Development Center before engaging in this opportunity.

OPT (Optional Practical Training): OPT is a benefit available to all students on an F-1 visa in which they are able to work in a position that relates to their area of study. This type of practical training typically occurs after a student has completed their program and graduated from Messiah. Students typically apply for the benefit of OPT before graduation. They are then approved by USCIS (United States Customs and Immigration Services) and obtain an EAD (Employment Authorization Document) Card that permits

them to work for at least a year following graduation. Certain majors are eligible for an additional benefit called STEM Extension which permits up to two additional years of employment in a STEM field.

Advising Issues that Impact F-1 Students

Change of Major

If an F-1 visa student changes their major or adds a major, they must inform the Office of International Student Programs, as the student needs to obtain a new Form I-20 to reflect their current degree programs.

Extension of Program

Students who are unable to complete their studies by the program end date indicated on their Form I-20 must apply for an extension prior to the expiration of their Form I-20. *A delay caused by academic probation or suspension is not an acceptable reason for extension.* Students should contact a DSO if they are in need of an extension.

Full-Time Enrollment

F-1 visa students are required to study full-time each term by enrolling in and completing a **minimum of 12 credit hours** each semester. *

Internship for F-1 Students and Curricular Practical Training (CPT):

F-1 international students who wish to do an internship or practicum **MUST** apply for Curricular Practical Training (CPT). CPT is granted for an internship or practicum that is **directly** related to the student's degree program. This includes student teaching, paid and unpaid internships. To be eligible for CPT an F-1 student must:

- Have been enrolled full-time for at least one full academic year
- Be maintaining legal F-1 immigration status
- Work with the Office of International Student Programs to properly apply for CPT
- Register for academic credit in order to be authorized to do the internship
 - If the internship/practicum is not required for their major, they must enroll in the internship class offered by the Career and Professional Development Center.
- Have an internship job offer and corresponding letter
- *Students engaging in CPT fulltime (over 20 hours a week) for 12 cumulative months, are no longer eligible for OPT (Optional Practical Training) which could impact their plans post-graduation.*

Online Courses

F-1 international students are required to take most of their classes in a traditional classroom setting. Only 3 online credits hours per semester or term will be counted towards full-time enrollment. Students who are taking overload courses may take more than 3 credits hours of online classes. *If a student only needs one course to complete their degree program, that course cannot be taken online from within the United States.*

For more information, please contact the Office of International Student Programs:

Visit our website: www.messiah.edu/isp

Lita Godoy , International Student Programs Advisor, DSO
lgodoy@messiah.edu x2284

Amy Nicols, Director of International Student Programs, PDSO
anicols@messiah.edu x2172

**Under certain academic or medical circumstances, international students on F-1 status may receive authorization from the Office of International Student Programs for a Reduced Course Load (RCL), which gives them permission to enroll in less than 12 credits.*