## 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-bycase 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_equival encies/2

Please take time to review the:
Advising Tips video at https://video.messiah.edu/Watch/Aa6r5CGg

# Degree Audit Essentials 

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

- The Degree Works Audit is a document used internally as a means of communicating degree requirements between the student, their Advisor (academic department) and the Registrar's Office.
- Academic Year is important. This is how the degree audit knows what degree requirements it needs to use to apply. The academic year associated with QuEST (General Education) requirements signifies the year that the student enrolled. The academic year associated with the major or minor should reflect the term in which they declared their area of study.
- Different sections or blocks identify the student's Major, Concentration, QuEST requirements, Minor (if applicable), College Honors Program (if applicable), Other/Elective Courses, Insufficient (if the student earned a grade of F or W), and In-Progress.
- The first block tracks the degree requirements (i.e. Minimum 123 credits required to graduate, Cumulative GPA of 2.0 or higher, Last 30 credits rule, Major, QuEST, and College Honors Program). The degree block sums up the total credits applied (including those in progress) versus credits required, and displays the number of credits "still needed" to graduate.
- To demonstrate degree completion, all major and QuEST requirements must be checked off and all in progress courses completed. In addition to meeting all course requirements, students must earn a minimum of 123 hours of credit, except as noted in the requirements for selected majors.
- Credits include Completed (green checkmark), In Progress (blue tilde), and Still Needed (red check box).
- In Progress courses are counted in the credits applied count.
- Courses that are Still Needed will list the number of credits required. You can click on the unmet course requirement (i.e. PSYC 101) for a course description, pre and co-requisites and the semesters it is offered.
- If the degree audit says "Concentration is required but not found" this means that the student must declare the concentration by completing the appropriate declaration form found in the Registrar's Office. Once the concentration is declared and processed, it will be displayed on the degree audit.
- For students who are double majoring (where each major has the same degree type), both majors will share the same degree audit.
- For students who are double majoring (where each major has a different degree type, such as BA and BS), there will be two degree audits. To view the other degree audit, click on the down arrow next to "Degree" at the top of the screen.
- Credits may be displayed in more than one section (i.e. Major and QuEST); however, credits can only be counted one time. Do NOT tally up the credits applied from each block.
- If there is more than one major, minor or concentration, the credit overlap rule applies. There must be 24 unique credits for each major, 12 unique credits for each minor, and 8 unique credits for each concentration.
- For students who are currently repeating a course for a better grade, be sure to account for the credit only once. Degree Works cannot remove the original credit and grade until final grades are reported at the end of the semester.
- Students who receive a waiver (i.e. Language/cross-cultural) will see that the requirement is checked off; however, credits will not be applied. In this case the student would be expected to fulfill the credits through free elective courses or may declare another area of study (i.e. minor).

Student Access to Degree Audits: Accessed via Falcon Link/ Self-Service Main Menu/ Student Records/ Degree Evaluation (Degree Works)

## "What If Audits"

The "What If Audit" is a helpful advising tool for students who are considering changing their major or adding a minor.

- Select the Degree associated with the major that is being changed (if different from the existing degree).
- Select the Academic Year (this will be the year in which the major is being declared). For example, if the student is declaring a major in Fall 2020, it would be academic year 2020-2021.
- Select the Major and Concentration that the student intends to declare. To select a concentration, look first for the corresponding major code.
- Select a Minor (or multiple minors) if applicable.
- Confirm the Chosen Areas of Study in the population box and click Process What If.
- Click on Worksheets to resume normal view of the degree audit.


## Helpful Tips

- The What If audit will automatically default to the year in which the student is declaring the area of study. As a result, the QuEST year will change when conducting a "What If." Please note that when a student changes their major, their QuEST year will remain as the term in which they enrolled.
- If a student has yet to declare a major in your department but wishes to meet with you to discuss their options, it is recommended that the student bring their own "What If audit" with them.


## Additional Features

- The Notes feature will allow the advisor to add a note to the student's audit, which can be marked as internal (viewed only by advisor and the Registrar's Office) or it can be viewed by the student. Access View Notes tab to view all notes.
- By selecting the Format drop down list at the top of the screen, a Registration Checklist sums up the remaining courses needed.


## Degree Audit Questions

- For questions or concerns regarding the Degree Works audit, please email: degreecertification@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 College'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 college'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 college 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 College'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 College'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 crosscultural 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 <br> 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
${ }^{\wedge}$ Students are strongly encouraged to take their Cross Cultural Studies course during their second or third years. Should it become necessary to take during a student's senior year, it should not be planned beyond J-Term.



## 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 $101 \quad$ First Year Seminar (3)
IDFY 102 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] A. Mathematical Sciences [3 hrs]
CIS 171
CIS 180
CIS 181
CIS 191
MATH 101
MATH 102
MATH 107
MATH 108
MATH 111
MATH 180
STAT 269

Problem Solving with Computers (3)
Introduction to Computer Science and Information Systems (3)
Computer Programming I (3)
Web Development Client Side (3)
Introduction to Mathematical Sciences (3)
The Mathematics of Growth (3)
Applied Mathematics for Management (3)
Intuitive Calculus with Applications (3)
Calculus I (4)
MATH 180 Discrete Mathematics (3)
STAT 269 Introductory Statistics (3)

## B. Laboratory Science [3 hrs]

BIOL 106 Life Science (3) (for Department of Education students only)
BIOL $117 \quad$ Field Biology (3)
BIOL $140 \quad$ Ecology and Sustainability (3)
BIOL $160 \quad$ Molecular and Cellular Biology (4)
BIOL 162 Plant Form \& Function (3)
BIOL 258 Human Biology (4)
CHEM 102 Chemistry for Living (3)
CHEM 103 Chemical Science (4)
CHEM 105 General Chemistry I (4)
ESS $201 \quad$ Earth and Space Science (3)
GEOL 201 Foundations of Geology (4)
NUTR 110 Science and Nutrition (3)
PHSC 102 Foundations of Physical Science (3) (Department of Education students only)

| PHYS 201 | Introductory Physics I (4) |
| :--- | :--- |
| PHYS 211 | General Physics I (4) |
| SUST 140 | Ecology and Sustainability (3) |

## C. Science, Technology, and the World [3 hrs]

BUSA $358 \quad$ Making a Better World? (3)
ENVS 216 Environmental Issues and Sustainable Solutions (3)
IDST 300
IDST 300
IDST 300
IDST 300
IDST 300
IDST 300
IDST 300
IDST 300
Appropriate Technology (3)
Biotechnology (3)
Christianity and Science: Historical and Contemporary Interactions (3)
Exploring Electrical Technologies (3)
Genetics and Society (3)

History of Modern Science I (3)
IDST 300 History of Modern Science II (3)
IDST $300 \quad$ Issues in Science and Religion (3)
IDST $300 \quad$ Mind and Machines (3)
IDST $300 \quad$ People, Food, and Farming (3)
IDST $300 \quad$ Plants and People (3)
IDST $300 \quad$ Psychology, Science and Technology (3)
IDST 300 Relationships and the Brain (3)
IDST 300 Religion and Science in Early America (3)
IDST 300 Religion and the Rise of Modern Science (3)
IDST $300 \quad$ 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 $300 \quad$ Staging Science (3)
IDST $300 \quad$ Stress and Health (3)
IDST 300 The Origins Controversy in America (3)
IDST 300 The Story of the Universe (3)
IDST $300 \quad$ Women and Science (3)
PHIL $356 \quad$ Minds and Machines (3)
SOCI $334 \quad$ Population and Environmental Issues (3)

### 2.2 Social Sciences and History [6 hrs]

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

## A. Social Sciences

ECON 110
Economics of Social Issues (3)
ECON 117
Issues in Environmental Economics (3)
ECON $120 \quad$ Principles of Macroeconomics (3)
EDUC 203 Educational Psychology (3)
HDFS 101 Foundations of Marriage and Family (3)
POLI 113
POLI 213
PSYC 101
American Government (3)
Comparative Politics (3)
Introduction to Psychology (3)
Principles of Sociology (3)
SOCI 101
Crime, Justice and Society (3)
Urban Sociology (3)

## B. European History

HIST 101
HIST 102
HIST 320

HIST 134 Knights, Peasants, And Bandits: A Social History of Medieval England (3)
Reformation and E Modern Europe (3)
Western Civilization Before 1500 (3)
Western Civilization Since 1500 (3)

Refor

## C. United States History

HIST 141
HIST 142
HIST 344
U.S. History Survey Before 1865 (3)
U.S. History Survey Since 1865 (3)

Civil War America (3)

### 2.3 Humanities and Arts [9 hrs]

## A. 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 $144 \quad$ Nineteenth-Century British Women Writers (3)
ENGL 146 Writing of the Inklings (3)
ENGL 148 Introduction to Shakespeare (3)
ENGL 152 Selected Works of American Literature (3)
ENGL 154
ENGL 160
ENGL 162
ENGL 164
ENGL 172
ENGL 174
ENGL 176
GERM 301
GERM 302
SPAN 301
SPAN 311
Introduction to Ethnic Literatures of the United States (3)
Introduction to World Literature (3)
Of Gods and Humans: Literature of the Ancient World (3)
Studies in the Bible as Literature (3)
Literature and the Life of Faith (3)
Literature and the Environment (3)
Twentieth Century Women's Literature (3)
Readings in German Literature I (3)
Readings in German Literature II (3)
Topics in Latin American Literature (3)
SPAN 314 The Counter Reformation and the Spanish Baroque (3) Prereq: SPAN 206
SPAN 331 Trans-Atlantic Literature (3)

## B. Philosophy [3 hrs]

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

## C. Religion [3 hrs]

RELI 205
Religions of the World (3)
RELI 206
Religions of the World for Majors (3)
RELI 228 Judaism (3)
RELI 229 Islam (3)

## D. Arts [3 hrs]

ART 103
ART 107
ART 112
ART 115
ART 130
ART 132
ART 136
ART 143
ART 171
ART 182
ART 215
ART 220
ART 221
ART 224
ART 232
ART 234
ART 236
ART 237
ART 251
ART 262
ART 263
ART 282
ART 312
ART 330
ART 332
ART 334
ART 364
DANC 305

MUGE 101
MUGE 203
MUGE 209
MUGE 210
MUGE 213
MUGE 217
MUGE 218
MUGE 223
MUGE 224
MUGE 225
THEA 110
THEA 120
THEA 150
THEA 361
THEA 363

Introduction to Drawing (3)
Introduction to Painting (3)
Introduction to Graphic Design (3)
Introduction to Sculpture (3)
Introduction to Computer Art (3)
Introduction to Printmaking (3)
Paper Processes (3)
Introduction to Watercolor (3)
Foundations of Drawing (3)
Color and Design (3)
Painting I (3)
Ceramics I: Wheel Techniques (3)
Ceramics I: Handbuilding (3)
Dyeing, Printing, and Manipulating Fabric (3)
Screen Printing (3)
Weaving Techniques (3)
Graphic Design and Visual Culture: Seeing, Thinking, and Making (3)
Typography And Visual Communications (3)
Photography I (3)
Construction and Assemblage (3)
Carving (3)
Form, Space, and Media (3)
Digital Imaging (3)
Intaglio and Relief Printmaking (3)
Lithography (3)
Wearable Art (3)
Casting (3)
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)
Fundamentals of Music Theory (3)
Music Through Piano (3)
Survey of Christian Song (3)
American Popular Music (3)
Music Through Percussion (3)
Music Through Singing (3)
Music Through Guitar (3)
Jazz Improvisation (3)
Songwriting for Beginners (3)
Worship Music through the Guitar (3)
Introduction to Theatre (3)
Acting 1 (3)
Introduction to Technical Theatre and Design (3)
Creative Dramatics (3)
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:
a. Three semesters of the same language, reaching the intermediate level OR
b. Two semesters of the same language plus an approved cross-cultural study

CHIN 101
CHIN 102
CHIN 201
FREN 101
FREN 102
FREN 201
GERM 10
GERM 10
GERM 201
GREK 205
GREK 206
GREK 305
HEBR 205
HEBR 206
HEBR 305
LATN 101
LATN 102
LATN 201
SPAN 10
SPAN 102
SPAN 201
IDCC 260

Fundamentals of Chinese I (3)
Fundamentals of Chinese II (3)
Intermediate Chinese (3)
Fundamentals of French I (3)
Fundamentals of French II (3)
Intermediate French (3)
Fundamentals of German I (3)
Fundamentals of German II (3)
Intermediate German (3)
Fundamentals of Greek I (3)
Fundamentals of Greek II (3)
Intermediate Greek (3)
Fundamentals of Hebrew I (3)
Fundamentals of Hebrew II (3)
Intermediate Hebrew (3)
Fundamentals of Latin I (3)
Fundamentals of Latin II (3)
Intermediate Latin (3)
Fundamentals of Spanish I (3)
Fundamentals of Spanish II (3)
Intermediate Spanish (3)
Cross-Cultural Study (3) (locations to be announced; vary by academic year)

## Area 3: Christian Faith

### 3.1 Knowledge of the Bible [3 hrs.]

BIBL 201
BIBL 202
BIBL 203
BIBL 204

Encountering the Bible (3)
Encountering the Bible for Majors (3)
Encountering the Old Testament (Hebrew Bible) (3)
Encountering the New Testament (3)

### 3.2 Christian Beliefs [3 hrs]

THEO 205
Introduction to Christian Theology (3)
THEO 207
African-American Theology (3)
THEO 20
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 $221 \quad$ Faith and Society (3)
THEO 223 Global Christian Theology (3)
THEO 225 Practical Theology of the Urban Church (3)
THEO 227 Theology, Violence, and Non-Violence (3)
THEO 229 Theology and American Culture (3)
THEO 232 Reformation Theology (3)
THEO 238 Christian Theology I: God and Humanity (3)

## Area 4: Social Responsibility

4.1 Wellness [1 hr.]

To complete this requirement, students must take one wellness activity course from the list below.
APHS $170 \quad$ Concepts of Conditioning
DANC $101 \quad$ Ballet (1)
DANC $102 \quad J a z z$ and Dance Theatre (1)
DANC $103 \quad$ Modern Dance (1)
DANC 104 Tap Dance I (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 $107 \quad$ Beginning Racquetball (1)
WELL 108 Intermediate Racquetball (1)
WELL $109 \quad$ Beginning Volleyball (1)
WELL $110 \quad$ Intermediate Volleyball (1)
WELL $111 \quad$ Advanced Volleyball (1)
WELL $112 \quad$ Beginning Tennis (1)
WELL $113 \quad$ Intermediate Tennis (1)
WELL 114 Dance and Rhythm Activities (1)
WELL 115 Skiing \& Snowboarding I (1)
WELL 116 Skiing \& Snowboarding II (1)
WELL $117 \quad$ Self Defense (1)
WELL $118 \quad$ Creative and Expressive Movement (1)
WELL $119 \quad$ Beginning Yoga (1)
WELL 120 Racquet Activities (1)
WELL 121 Team Activities (1)
WELL $122 \quad$ Flag Football and Basketball
WELL 123 Strength Training (1)
WELL $124 \quad$ 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 $129 \quad$ 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 $137 \quad$ Fitness Walking (1)
WELL $138 \quad$ 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.

## A. Ethics in the Modern World

BIBL 293
BIOL 317
BUSA 370
EDUC 356
ENVS 315

The Bible and Social Ethics (3)
Bioethics (3)
Moral Issues In Business (3)
Moral Education (3)
Environmental Ethics (3)

HDFS $340 \quad$ Ethics and Family (3)
HIST $391 \quad$ Historical Study of Peace (3)
IDET 300
Children and Society (3)
IDET 300
Ethics of Caring (3)
IDET 300
Moral Issues in Business (3)
IDET 300
Perspectives on Justice and Rights (3)
IDET 300
Sport and Ethics (3)
IDET 300
IDET 316
PHIL 325
PHIL 382
POLI 320
POLI 330
SOCI 335
The Court's Holy Battles (3)
Healthcare Ethics (3)
Moral Problems (3)
Ethics (3)
Ethnic and Racial Politics in America (3)
Terrorism (3)
Social Conflict, Justice and Peacemaking (3)

## B. World Views

IDWV 300
World Views (3)
PHIL 345

## C. Pluralism in Contemporary Society

COMM $307 \quad$ 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 Multi-Cultural Families (3)
HDFS $384 \quad$ Families in America (3)
HDFS 386 Family Ethnicity and Human Services (3)
HIST 351
HIST 352
HIST 355
HIST 392
HPED 329
IDPL 300
IDPL 300
IDPL 300
POLI 310
POLI 316
POLI 325
RELI 342
RELI 355
SOCI 310
SOCI 341
SOCI 342
SOCI 356
SOWK 356
THEO 354

Native American History (3)
African-America History Since 1865 (3)
U.S. Urban History (3)

Women and Gender in History (3)
Sport in Society (3)
Personal Narratives of a Pluralist Society (3)
The Holocaust (3)
Racism and Racial Reconciliation (3)
American Political Thought (3)
Constitutional Law: Civil Liberties and Civil Rights (3)
Gender, Family and Politics (3)
Religious Pluralism in America (3)
Christianity in North America (3)
Food, Power, and Society (3)
Religion and Society (3)
Women and Men in American Society (3)
Social Inequality (3)
Engaging Diversity and Inequality (3)
Theology and Gender (3)

| 4.3 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 171 | World Civilizations: Bronze Age to 1500 (3) |
| HIST 172 | World Civilizations: 1500 to Present (3) |
| HIST 372 | Modern Civilizations of Asia (3) |
| HIST 379 | History of the Middle East (3) |
| HIST 381 | History of Africa (3) |
| IDNW 200 | Africa History Survey (3) |
| IDNW 200 | Africa Through Literature (3) |
| IDNW 200 | African Music and Culture (2) |
| IDNW 200 | African Ways of Life (3) |
| IDNW 200 | Caribbean Island Society and Culture (3) |
| IDNW 200 | Cinema in the Islamic World (3) |
| IDNW 200 | Education. in Sub-Saharan Africa (3) |
| IDNW 200 | Japanese Culture: Ancient, Contemporary, Popular (3) |
| IDNW 200 | Japanese Popular Culture (3) |
| IDNW 200 | Japanese Society and Culture (3) |
| IDNW 200 | National, Regional \& Global: Contemp. Latin American Cinema (3) |
| IDNW 200 | Latin American Cinema (3) |
| IDNW 200 | Latin American Music and Culture (2) |
| IDNW 200 | Pacific Island Food and Culture (3) |
| IDNW 200 | Themes in Latin American Theatre (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) |
| POL 346 | Russia after Communism (3) |
| REL 321 | Christianity in Latin America (3) |
| REL 329 | Christianity in Africa (3) |
| REL 332 | Christianity in Asia (3) |
| RELI 333 | Religions of India (3) |
| RELI 334 | Religions of China and Japan (3) |
| SOCI 212 | Cultural Anthropology (3) |
| SOCI 221 | Native American Cultures (3) |
| SOCI 381 | Topics in Non-Western Cultures (3) |
| SPAN 302 | Culture and Identity in Latin America (3) |
| SPAN 305 | Latin American Plays of Protest (3) |
|  |  |

ARTH 210
COMM 321
GEOG 103
HIST 171
HIST 172
HIST 372
IST 379
ST 381
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
IDNW 200
MUMH 338
PHIL 318
POLI 222
POLI 312
POLI 346
RELI 321
RELI 329
RELI 332
RELI 333
RELI 334
SOCI 212
SOCI 381
SPAN 302
SPAN 305

Topics in Non-Western Art (3)
Global Indigenous Media (3)
Latin American Cinema (3)
World Regional Geography (3)
World Civilizations: Bronze Age to 1500 (3)

Mistory of the Midde East (3)
History of Africa (3)
Africa History Survey (3)
Africa Through Literature (3)
African Music and Culture (2)
African Ways of Life (3)
Caribbean Island Society and Culture (3)
Education. in Sub-Saharan Africa (3)
Japanese Culture: Ancient, Contemporary, Popular (3)
Japanese Popular Culture (3)
Japanese Society and Culture (3)
National, Regional \& Global: Contemp. Latin American Cinema (3)
Latin American Cinema (3)
Latin American Music and Culture (2)
Pacific Island Food and Culture (3)
Themes in Latin American Theatre (3)
Studies in Global Music (2)
Asian Philosophy (3)
Politics in Latin America (3)
Politics of China (3)
Russia after Communism (3)
Christianity in Latin America (3)

Religions of India (3)
Religions of China and Japan (3)
Cultural Anthropology (3)
Native American Cultures (3)
Culture and Identity in Latin America (3)
Latin American Plays of Protest (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

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:
a. outline contemporary issues arising out of the pluralism of race, ethnicity, social class, gender, disability and religion.
b. examine contemporary society from diverse viewpoints and through these, increase self-knowledge.
c. explain some effects of inequality, prejudice, and discrimination.
d. articulate and practice an informed and faithful Christian response to diversity.
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 College)
- Approval for Transfer Credit Form (for students not studying in an approved study abroad program through the Intercultural Office at Messiah College; 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.

- 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
$3.1 \quad$ Knowledge of the Bible
$3.2 \quad$ 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. Robin Lauermann, Associate 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 College 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 College 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 College course | 100-200 |
| Christian Beliefs | *Messiah College course | 200-300 |
| Wellness | 21 -credit activity courses (transfer students only) | 100 |
| Ethics in the Modern World or World Views or Pluralism in Contemporary Society | Messiah College 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 College catalog for more information.

## III. BIBLICAL \& RELIGIOUS 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 233 and BIBL 237 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. Christian Ministries majors should take CHRM 210 or CHRM 220 in their sophomore year.
5. Christian Ministries majors will fulfill their ELI requirement via CHRM 391 or 393.
6. All 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.) with Bible Concentration

| 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 | $1^{\text {st }}$ Language* (GREK or HEBR recommended) | 3 | Varies | $2^{\text {nd }}$ Language* (January Term) | 3 |
| Varies | Free Elective | 3 | THEO 238 | Christian Theology ${ }^{* *}$ | 3 |
| Varies | Mathematical Science* (CIS recommended) | 3-4 | Varies | ${ }^{\text {st }}$ Social Science, History* | 3 |
| BIBL 202 | Encountering the Bible for Majors** | 3 | Varies | Free Elective | 3 |
|  |  |  | Varies | 3rd Language or Cross Cultural* | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 18 |
| Sophomore Year-Fall |  |  | Sophomore Year-Spring |  |  |
| ENGL xxx | Literature* | 3 | BIBL 237 | New Testament Literature for Majors | 3 |
| Varies | 2nd Social Science, History* | 3 | Varies | Free Elective | 3 |
| BIBL 233 | Old Testament Literature for Majors | 3 | RELI 206 OR Varies | Religions of the World for Majors** OR Free Elective | 3 |
| RELI 344 | History of Christianity | 3 | Varies | Wellness* | 1 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  |  |  | COMM 105 | Oral Communication* (January Term) | 3 |
|  | TOTAL | 15 |  | TOTAL | 16 |
| Junior Year-Fall |  |  | Junior Year-Spring |  |  |
| BIBL xxx | Bible Elective | 3 | $\begin{aligned} & \hline \text { BIBL } 307 \\ & \text { OR BIBL } \\ & 381 \end{aligned}$ | Biblical Backgrounds OR Biblical Interpretation and Criticism | 3 |
| Varies | Laboratory Science* | 3-4 | BIBL 382 OR Varies | Topics in Biblical Theology OR Free Elective | 3 |
| Varies | Non-Western Studies* | 3 | BIBL 313 | Selected Old Testament Books | 3 |
| THEO 305 OR Varies | Christian Theology of Religious Pluralism*** OR Free Elective | 3 | RELI 206 OR Varies | Religions of the World for Majors** OR Free Elective | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 15 |
| Senior Year-Fall |  |  | Senior Year-Spring |  |  |
| THEO 305 OR Varies | Christian Theology of Religious Pluralism ${ }^{* * *}$ OR Free Elective | 3 | $\begin{aligned} & \hline \text { BIBL } 307 \\ & \text { OR BIBL } \\ & 381 \end{aligned}$ | Biblical Backgrounds OR Biblical Interpretation and Criticism | 3 |
| THEO 487 | Biblical and Religious Studies Seminar | 3 | Varies | Ethics, World Views or Pluralism* | 3 |
| Varies | Science, Tech and the World* | 3 | Varies | Arts* | 3 |
| Varies | Free Elective | 3 | BIBL 382 OR Varies | Topics in Biblical Theology OR Free Elective | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15 |  | TOTAL | 15 |
|  |  |  |  | TOTAL CREDITS | $\begin{aligned} & 124- \\ & 126 \\ & \hline \end{aligned}$ |

1. *Meets QuEST requirement
2. **Meets QuEST and Major requirements
3. ***Fulfills Writing Enriched course requirement for Major

## Biblical and Religious Studies (B.A.) with Religion Concentration

| 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 | 1st Language* (GREK or HEBR recommended) | 3 | Varies | $2^{\text {nd }}$ Language* (January Term) | 3 |
| Varies | Free Elective | 3 | THEO 238 | Christian Theology ${ }^{\text {** }}$ | 3 |
| Varies | Mathematical Science* (CIS recommended) | 3-4 | Varies | ${ }^{\text {st }}$ Social Science, History* | 3 |
| BIBL 202 | Encountering the Bible for Majors** | 3 | Varies | Free Elective | 3 |
|  |  |  | Varies | 3rd Language or Cross Cultural* | 3 |
|  | TOTAL | 15-16 | TOTAL |  | 18 |
| Sophomore Year-Fall |  |  |  |  |  |
| ENGL xxx | Literature* | 3 | BIBL 237 ${ }^{\text {S }}$ Sophomore Year-Spring |  | 3 |
| Varies | $2^{\text {nd }}$ Social Science, History* | 3 | Varies | Free Elective | 3 |
| BIBL 233 | Old Testament Literature for Majors | 3 | RELI 206 <br> OR Varies | Religions of the World for Majors** OR Free Elective | 3 |
| RELI 344 | History of Christianity | 3 | Varies | Wellness* | 1 |
| Varies | Free Elective | 3 | RELI 355 OR Varies | Christianity in North America OR Free Elective | 3 |
|  |  |  | COMM 105 | Oral Communication* (January Term) | 3 |
|  | TOTAL | 15 |  | TOTAL | 16 |
| Junior Year-Fall |  |  | Junior Year-Spring |  |  |
| RELI xxx | Religion Elective (RELI 228,229, 333, or 334) | 3 | RELI xxx OR RELI 329 | Religion Elective (RELI 228,229, 333, or 334) OR Christianity in Africa** | 3 |
| Varies | Laboratory Science* | 3-4 | $\begin{aligned} & \hline \text { RELI } 366 \\ & \text { OR Varies } \\ & \hline \end{aligned}$ | Topics in Religion OR Free Elective | 3 |
| THEO 305 OR Varies | Christian Theology of Religious Pluralism ${ }^{* * *}$ OR Free Elective | 3 | $\begin{aligned} & \text { RELI } 355 \\ & \text { OR Varies } \end{aligned}$ | Christianity in North America OR Free Elective | 3 |
| Varies | Free Elective | 3 | RELI 206 OR Varies | Religions of the World for Majors** OR Free Elective | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 15 |
| Senior Year-Fall |  |  | Senior Year-Spring |  |  |
| THEO 305 OR Varies | Christian Theology of Religious Pluralism ${ }^{* * *}$ OR Free Elective | 3 | RELI xxx OR RELI 329 | Religion Elective (RELI 228,229, 333, or 334) OR Christianity in Africa** | 3 |
| $\begin{aligned} & \text { THEO } \\ & 487 \end{aligned}$ | Biblical and Religious Studies Seminar | 3 | Varies | Ethics, World Views or Pluralism* | 3 |
| Varies | Science, Tech and the World* | 3 | Varies | Arts* | 3 |
| Varies | Free Elective | 3 | RELI 366 OR Varies | Topics in Religion OR Free Elective | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15 |  | TOTAL | 15 |
|  |  |  |  | TOTAL CREDITS | $\begin{aligned} & 124- \\ & 126 \end{aligned}$ |

1. *Meets QuEST requirement
2. ${ }^{* *}$ Meets QuEST and Major requirements
3. ***Fulfills Writing Enriched course requirement for Major

## Biblical and Religious Studies (B.A.) with Theology Concentration

| 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 | $1^{\text {st Ltanguage* }}$ (GREK or HEBR recommended) | 3 | Varies | $2^{\text {nd }}$ Language* (January Term) | 3 |
| Varies | Free Elective | 3 | THEO 238 | Christian Theology ${ }^{\text {** }}$ | 3 |
| Varies | Mathematical Science* (CIS recommended) | 3-4 | Varies | ${ }^{\text {st }}$ Social Science, History* | 3 |
| BIBL 202 | Encountering the Bible for Majors** | 3 | Varies | Free Elective | 3 |
|  |  |  | Varies | 3rd Language or Cross Cultural* | 3 |
|  | TOTAL | 15-16 | TOTAL |  | 18 |
| Sophomore Year-Fall |  |  | Sophomore Year-Spring |  |  |
| Varies | Free Elective | 3 | BIBL 237 | New Testament Literature for Majors | 3 |
| Varies | $2^{\text {nd }}$ Social Science, History* | 3 | Varies | Free Elective | 3 |
| BIBL 233 | Old Testament Literature for Majors | 3 | RELI 206 OR Varies | Religions of the World for Majors OR Free Elective | 3 |
| RELI 344 | History of Christianity | 3 | Varies | Wellness* | 1 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  |  |  | COMM 105 | Oral Communication* (January Term) | 3 |
|  | TOTAL | 15 |  | TOTAL | 16 |
| Junior Year-Fall |  |  | Junior Year-Spring |  |  |
| $\begin{aligned} & \hline \text { THEO } \\ & 343 \text { OR } \\ & 354 \\ & \hline \end{aligned}$ | Contemporary Theology OR Theology and Gender** | 3 | THEO 338 | Christian Theo. III: Peace, Justice, Rec.. | 3 |
| Varies | Laboratory Science* | 3-4 | $\begin{aligned} & \hline \text { RELI 321, } \\ & 329, \text { or } 332 \end{aligned}$ | Christianity in Latin America** OR Christianity in Asia** OR Christianity in Africa** | 3 |
| PHIL 101/102 | Philosophy* | 3 | ENGL xxx | Literature* | 3 |
| Varies | Free Elective | 3 | THEO 366 OR Varies | Topics in Theology OR Free Elective | 3 |
| THEO 305 OR Varies | Christian Theology of Religious Pluralism ${ }^{* * *}$ OR Free Elective | 3 | RELI 206 OR Varies | Religions of the World for Majors OR Free Elective | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 15 |
| Senior Year-Fall |  |  | Senior Year-Spring |  |  |
| THEO 305 OR Varies | Christian Theology of Religious Pluralism*** OR Free Elective | 3 | THEO 366 OR Varies | Topics in Theology OR Free Elective | 3 |
| $\begin{aligned} & \text { THEO } \\ & 487 \\ & \hline \end{aligned}$ | Biblical and Religious Studies Seminar | 3 | Varies | Arts* | 3 |
| Varies | Free Elective | 3 | Varies | Science, Tech and the World* | 3 |
| $\begin{aligned} & \hline \text { THEO } \\ & 343 \text { OR } \end{aligned}$ $354$ | Contemporary Theology OR Theology and Gender** | 3 | Varies | Free Elective | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15 |  | TOTAL | 15 |
|  |  |  |  | TOTAL CREDITS | $\begin{gathered} 124- \\ 126 \end{gathered}$ |

1. *Meets QuEST requirement
2. **Meets QuEST and Major requirements
3. ***Fulfills Writing Enriched course requirement for Major

Biblical and Religious Studies (B.A.) with World Christianity Concentration

| 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 | 1st Language* (GREK or HEBR recommended) | 3 | Varies | $2^{\text {nd }}$ Language* (January Term) | 3 |
| Varies | Free Elective | 3 | THEO 205 | Introduction to Christian Theology** | 3 |
| Varies | Mathematical Science* (CIS recommended) | 3-4 | Varies | $1^{\text {st }}$ Social Science, History* | 3 |
| BIBL 202 | Encountering the Bible for Majors** | 3 | Varies | Free Elective | 3 |
|  |  |  | Varies | 3rd Language or Cross Cultural* | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 18 |
| Sophomore Year-Fall |  |  | Sophomore Year-Spring |  |  |
| Varies | Free Elective | 3 | BIBL 237 | New Testament Literature for Majors | 3 |
| Varies | $2^{\text {nd }}$ Social Science, History* | 3 | Varies | Free Elective | 3 |
| BIBL 233 | Old Testament Literature for Majors | 3 | RELI 206 OR Varies | Religions of the World for Majors** OR Free Elective | 3 |
| RELI 344 | History of Christianity | 3 | CHRM 220 OR Varies | Intro to Christian Mission OR Wellness | 1-3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15 |  | TOTAL | 13 |
| Junior Year-Fall |  |  | Junior Year-Spring |  |  |
| ENGL xxx | Literature* | 3 | $\begin{aligned} & \text { RELI 321, } \\ & 329, \text { OR } 332 \end{aligned}$ | Christianity in Latin America OR Christianity in Asia OR Christianity in Africa | 3 |
| Varies | Laboratory Science* | 3-4 | Varies | Arts* | 3 |
| $\begin{aligned} & \hline \text { COMM } \\ & 105 \\ & \hline \end{aligned}$ | Oral Communication* | 3 | RELI 366 OR Varies | Topics in Religion OR Free Elective | 3 |
| Varies | Free Elective | 3 | CHRM 220 OR Varies | Intro to Christian Mission OR Wellness | 1-3 |
| THEO 305 OR <br> Varies | Christian Theology of Religious Pluralism*** OR Free Elective | 3 | RELI 206 OR Varies | Religions of the World for Majors** OR Free Elective | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 13 |
| Senior Year-Fall |  |  | Senior Year-Spring |  |  |
| THEO 305 OR Varies | Christian Theology of Religious Pluralism** OR Free Elective | 3 | RELI 366 OR Varies | Topics in Religion OR Free Elective | 3 |
| $\begin{aligned} & \text { THEO } \\ & 487 \end{aligned}$ | Biblical and Religious Studies Seminar | 3 | Varies | Ethics, World Views or Pluralism* | 3 |
| Varies | Science, Tech and the World* | 3 | Varies | Free Elective | 3 |
| Varies | Free Elective | 3 | $\begin{aligned} & \text { RELI 321, } \\ & 329, \text { OR } 332 \end{aligned}$ | Christianity in Latin America OR Christianity in Asia OR Christianity in Africa | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15 |  | TOTAL | 15 |
|  |  |  |  | TOTAL CREDITS | 124-126 |

1. *Meets QuEST requirement
2. ${ }^{* *}$ Meets QuEST and Major requirements
3. ***Fuffills Writing Enriched course requirement for Major

## Christian Ministries (B.A.) with Cross Cultural Ministry Concentration

| 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 | $\begin{aligned} & \text { 1st Language* (GREK or HEBR } \\ & \text { recommended) } \end{aligned}$ | 3 | Varies | 2nd Language* (January Term) | 3 |
| Varies | Free elective | 3 | THEO 238 | Christian Theology ${ }^{* *}$ | 3 |
| Varies | Mathematical Science* (CIS recommended) | 3-4 | Varies | European of US History* | 3 |
| BIBL 202 | Encountering the Bible for Majors** | 3 | COMM 105 | Oral Communication* | 3 |
| CHRM 099 | Opportunities in Christian Ministries | 1 | Varies | $3{ }^{\text {rd }}$ Language* | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 18 |
| Sophomore Year-Fall |  |  | Sophomore Year-Spring |  |  |
| ENGL xxx | Literature* | 3 | BIBL 237 | New Testament Literature for Majors | 3 |
| THEO 223 | Global Christian Theology | 3 | THEO 338 | Christian Theology III | 3 |
| BIBL 233 | Old Testament Literature for Majors | 3 | CHRM 242 | Christian Spirituality | 3 |
| RELI 344 | History of Christianity | 3 | CHRM 220 | Introduction to Christian Mission | 3 |
| THEO 239 | Christian Theology II*** | 3 | CHRM 227 OR Varies | Pre-Field Experience for CC Ministry OR Free Elective | 3 |
|  |  |  | CHRM 338 | Teaching for Christian Ministries | 3 |
|  | TOTAL | 15 |  | TOTAL | 18 |
| Junior Year-Fall |  |  | Junior Year-Spring |  |  |
| BIBL 312 | Selected NT Books | 3 | CHRM 227 OR Varies | Pre-Field Experience for CC Ministry OR Arts | 3 |
| Varies | Laboratory Science* | 3-4 | CHRM 352 <br> OR Varies | Topics in Cross-Cultural Ministry OR Free Elective | 3 |
| THEO 305 OR Varies | Christian Theology of Religious Pluralism OR Free Elective | 3 | SOCI 212 | Cultural Anthropology** | 3 |
| CHRM 320 | Biblical Theology of Mission | 3 | RELI 206 OR Varies | Religions of the World for Majors or Wellness* | 1-3 |
| CHRM 393 OR Varies | Post-Field Experience for CC Ministry OR Non-Western Studies | 3 | PHIL 101 | Problems in Philosophy* | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 15-16 |  | TOTAL | 13-15 |
| Senior Year-Fall |  |  | Senior Year-Spring |  |  |
| CHRM 493 | Christian Ministries Seminar | 3 | CHRM 352 OR Varies | Topics in Cross-Cultural Ministry OR Free Elective | 3 |
| THEO 305 OR Varies | Christian Theology of Religious Pluralism OR Free Elective | 3 | Varies | Ethics, World Views or Pluralism* | 3 |
| Varies | Science, Tech and the World* | 3 | CHRM 227 OR Varies | Pre-Field Experience for CC Ministry OR Arts* | 3 |
| COMM 342 | Intercultural Communication | 3 | CHRM 391 | Practicum | 3 |
| CHRM 393 OR Varies | Post-Field Experience for CC Ministry OR Non-Western Studies* | 3 | RELI 206 OR Varies | Religions of the World for Majors or Wellness* | 1-3 |
|  | TOTAL | 15 |  | TOTAL | 15 |
|  |  |  |  | TOTAL CREDITS | $\begin{gathered} 124- \\ 126 \end{gathered}$ |

4.     * Meets QuEST requirement
5. **Meets QuEST and Major requirements
6. ***Fulfills Writing Enriched course requirement for Major

## Christian Ministries (B.A.) with Congregational Ministry Concentration

| 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 | 1st Language* (GREK or HEBR recommended) | 3 | Varies | $2^{\text {nd }}$ Language* (January Term) | 3 |
| Varies | Free Elective | 3 | THEO 238 | Christian Theology ${ }^{* *}$ | 3 |
| Varies | Mathematical Science* (CIS recommended) | 3-4 | Varies | 1st Social Science, History* | 3 |
| BIBL 202 | Encountering the Bible for Majors** | 3 | COMM 105 | Oral Communication* | 3 |
| CHRM 099 | Opportunities in Christian Ministries | 1 | Varies | $3{ }^{\text {rd }}$ Language | 3 |
|  | TOTAL | 16-17 |  | TOTAL | 18 |
| Sophomore Year-Fall |  |  | Sophomore Year-Spring |  |  |
| ENGL xxx | Literature* | 3 | BIBL 237 | New Testament Literature for Majors | 3 |
| Varies | 2nd Social Science, History* | 3 | THEO 338 | Christian Theology III | 3 |
| BIBL 233 | Old Testament Literature for Majors | 3 | CHRM 242 | Christian Spirituality | 3 |
| RELI 344 | History of Christianity | 3 | Varies | Wellness* | 1 |
| THEO 239 | Christian Theology I**** | 3 | CHRM 225 | Field Experience in Christian Ministries | 2 |
|  |  |  | CHRM 338 | Teaching for CM (January Term) | 3 |
|  | TOTAL | 15 |  | TOTAL | 15 |
| Junior Year-Fall |  |  | Junior Year-Spring |  |  |
| BIBL 312 | Selected NT Books | 3 | CHRM 351 or CHRM 343 | Topics in Congregational Ministries OR Introduction to Preaching | 3 |
| Varies | Laboratory Science* | 3-4 | RELI 355 OR Varies | Christianity in North America** OR Free Elective | 3 |
| Varies | Non-Western Studies* | 3 | CHRM 210 | Theology of Ministry | 3 |
| CHRM 323 or Varies | Worship OR Free Elective | 3 | PHIL 101 | Problems in Philosophy* | 3 |
| $\begin{aligned} & \text { CHRM } 243 \\ & \text { or CHRM } \\ & 330 \end{aligned}$ | Evangelism and Discipleship OR Organization and Leadership for Ministry | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 15 |
| Senior Year-Fall |  |  | Senior Year-Spring |  |  |
| CHRM 493 | Christian Ministries Seminar | 3 | CHRM 351 or CHRM 343 | Topics in Congregational Ministries OR Introduction to Preaching | 3 |
| CHRM 243 or CHRM 330 | Evangelism and Discipleship OR Organization and Leadership for Ministry | 3 | RELI 355 OR Varies | Christianity in North America** OR Free Elective | 3 |
| Varies | Science, Tech and the World* | 3 | Varies | Arts* | 3 |
| CHRM 342 | Pastoral Counseling | 3 | CHRM 391 | Practicum | 3 |
| CHRM 323 | Worship OR Free Elective | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15 |  | TOTAL | 15 |
|  |  |  |  | TOTAL CREDITS | $\begin{aligned} & 124- \\ & 126 \end{aligned}$ |

1.     * Meets QuEST requirement
2. **Meets QuEST and Major requirements
3. ***Fulfills Writing Enriched course requirement for Major

## Christian Ministries (B.A.) with Youth Ministry Concentration

| 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 | $1^{\text {st Language* }}$ (GREK or HEBR recommended) | 3 | Varies | $2^{\text {nd }}$ Language* (January Term) | 3 |
| Varies | Free Elective | 3 | THEO 238 | Christian Theology ${ }^{\text {*** }}$ | 3 |
| Varies | Mathematical Science* (CIS recommended) | 3-4 | Varies | European or US History* | 3 |
| BIBL 202 | Encountering the Bible for Majors** | 3 | COMM 105 | Oral Communication* | 3 |
| CHRM 099 | Opportunities in Christian Ministries | $\begin{gathered} 1 \\ \hline 15-16 \end{gathered}$ | Varies | 3 3d Language |  |
| TOTAL 15-16 |  |  | TOTAL 18 |  |  |
|  |  |  |  |  |  |  |
| Sophomore Year-Fall |  |  | Sophomore Year-Spring |  |  |
| ENGL xxx | Literature* | 3 | BIBL 237 | New Testament Literature for Majors | 3 |
| HDFS 101 | Foundations of Marriage and Family** | 3 | THEO 338 | Christian Theology III | 3 |
| BIBL 233 | Old Testament Literature for Majors | 3 | CHRM 242 | Christian Spirituality | 3 |
| RELI 344 | History of Christianity | 3 | CHRM 235 | Ministry with Youth I | 3 |
| THEO 239 | Christian Theology II*** | 3 | CHRM 225 | Field Experience in Christian Ministries | 2 |
|  |  |  | CHRM 338 | Teaching for CM (J term) | 3 |
|  | TOTAL | 15 |  | TOTAL | 17 |
|  |  |  |  |  |  |
|  | Junior Year-Fall |  |  | Junior Year-Spring |  |
| BIBL 312 | Selected NT Books | 3 | HDFS 311 | Adolescent Development | 3 |
| Varies | Laboratory Science* | 3-4 | $\begin{aligned} & \text { RELI } 355 \\ & \text { OR Varies } \end{aligned}$ | Christianity in North America OR Free Elective | 3 |
| Varies | Non-Western Studies* | 3 | CHRM 210 | Theology of Ministry | 3 |
| CHRM 353 | Topics in Youth Ministries | 3 | CHRM 336 | Ministry with Youth II | 3 |
| $\begin{aligned} & \text { CHRM } 330 \\ & \text { OR } 243 \\ & \hline \end{aligned}$ | Organization and Leadership for Ministry OR Evangelism and Discipleship | 3 | PHIL 101 | Problems in Philosophy* | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 15 |
|  |  |  |  |  |  |
|  | Senior Year-Fall |  |  | Senior Year-Spring |  |
| CHRM 493 | Christian Ministries Seminar | 3 | Varies | Wellness* | 1 |
| $\begin{aligned} & \hline \text { CHRM } 330 \\ & \text { OR } 243 \\ & \hline \end{aligned}$ | Organization and Leadership for Ministry OR Evangelism and Discipleship | 3 | $\begin{aligned} & \hline \text { RELI } 355 \\ & \text { OR Varies } \\ & \hline \end{aligned}$ | Christianity in North America OR Free Elective | 3 |
| Varies | Science, Tech and the World* | 3 | Varies | Arts* | 3 |
| Varies | Free Elective | 3 | CHRM 391 | Practicum | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 15 |  | TOTAL | 13 |
|  |  |  |  | TOTAL CREDITS | $\begin{aligned} & 123- \\ & 125 \end{aligned}$ |

1.     * Meets QuEST requirement
2. ${ }^{* *}$ Meets QuEST and Major requirements
3. ***Fulfills Writing Enriched course requirement for Major

## III. BIOLOGICAL SCIENCES

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## 8-Semester Plans

## Biology B.S. with Biomedical Concentration



Students must have a minimum of 17 credits in their concentration. They must also have three $300 / 400$ level lab courses OR two 300/400 level lab courses and one BIOL course with extensive field experience (BIOL 218, 296, or 297) within the major.

Students intending to pursue certain graduate level programs such as medical or veterinary school should also take PHYS 202 Intro to Physics II in the spring of the third year.

## Biology B.S. with Cellular Concentration 8 Semester Plan



Students must have a minimum of 17 credits in their concentration. They must also have three $300 / 400$ level lab courses $O R$ two 300/400 level lab courses and one BIOL course with extensive field experience (BIOL 218, 296, or 297) within the major.

## Biology B.S. with Ecological Concentration 8 Semester Plan



Students must have a minimum of 17 credits in their concentration. They must also have three $300 / 400$ level lab courses $O R$ two 300/400 level lab courses and one BIOL course with extensive field experience (BIOL 218, 296, or 297) within the major.

## Biology B.S. with General Concentration

8 Semester Plan


Students must have a minimum of 17 credits in their concentration. They must also have three $300 / 400$ level lab courses OR two 300/400 level lab courses and one BIOL course with extensive field experience (BIOL 218, 296, or 297) within the major.

## Biology B.S. with Organismal Concentration 8 Semester Plan



Students must have a minimum of 17 credits in their concentration. They must also have three $300 / 400$ level lab courses $O R$ two 300/400 level lab courses and one BIOL course with extensive field experience (BIOL 218, 296, or 297) within the major.

## Biology (B.S.) with Secondary Teaching Certification 8 Semester Plan

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| BIOL 160 | Molecular and Cellular Biology | 4 | BIOL 164 | Animal Form/ Systematics (J-Term) | 2 |
| CHEM 105 | General Chemistry I | 4 | BIOL 166 | Principles Comparative Physiology | 2 |
| COMM 105 ${ }^{\circ}$ | Fundamentals of Oral Communication* | 3 | BIOL 162 | Plant Biology | 3 |
| IDFY 101a | First Year Seminar* | 3 | CHEM 106 | General Chemistry II | 4 |
| Varies | 1st Language* | 3 | IDCR 151 | Created and Called for Community* | 3 |
|  |  |  | Varies | $2^{\text {st }}$ Language* | 3 |
|  |  |  |  |  |  |
|  |  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to B414. |  |
|  |  |  |  |  |  |
| TOTAL |  | 17 |  | TOTAL | 17 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| BIOL 260 | Genetics and Development | 4 | BIOL 262 | Ecology and Adaptation | 4 |
| CHEM 204 | Intro to Organic Chemistry | 4 | EDUC 346 | Sociocultural Perspectives in Education | 3 |
| ENGL 122-176a | Literature* | 3 | EDSP 207c | Intro to Special Ed | 3 |
| MATH 108a | Intuitive Calculus | 3 | EDUC 203c | Educational Psychology | 3 |
| Varies | 3 rd Language or Cross Cultural* | 3 | EDUC 210 | Sophomore Field Experience | 0 |
|  |  |  | STAT 269a | Introductory Statistics | 3 |
|  |  |  | WELL 1 xx | Wellness Course* | 1 |
|  |  |  |  |  |  |
|  |  |  |  | Submit Teacher Ed. Program application by 3/31 to B414. |  |
|  |  |  |  |  |  |
| TOTAL |  | 17 |  | TOTAL | 17 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| BIOL $x x x$ | Integrative Biology Elective | 3-4 | BIBL 20x | Knowledge of the Bible* | 3 |
| BIOL $x$ xx | Cellular Biology Elective | 4 | EDUC 331 bc | Instruct. Design \& Assessment | 3 |
| PHIL 10x | Philosophy* | 3 | EDSP 307 b | Inclusion Practices | 3 |
| PHYS 201 | Intro to Physics I | 4 | EDUC $310^{\text {bc }}$ | Junior Field Experience | 0 |
|  |  |  | ENGL 330 bc | TESOL Methodology | 3 |
|  | Submit professional semester app. by 11/1 to B414. |  | ESS 201 | Earth and Space Science | 3 |
|  |  |  | SCI 307 | Teaching Lab Sciences in Secondary Education | 1 |
| TOTAL |  | 14-15 |  | TOTAL | 16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
|  | Professional Semester |  | BIOL 495 | Capstone | 3 |
| BIOL $407{ }^{\text {bc }}$ | Secondary Science C\&I | 1 | BIOL $x \times x$ | Integrative/Botany Elective | 3-4 |
| EDUC $x x x{ }^{\text {bc }}$ | Student Teaching | 8 | HIST 1 xx | History* | 3 |
| EDUC 420 ${ }^{\text {bc }}$ | Professional Issues | 2 | THEO/RELI | Christian Beliefs* | 3 |
|  |  |  | Varies | Art, Music, Theatre, or Dance* | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 11 |  | TOTAL | 15-16 |
| *QuEST requirement |  |  |  |  |  |

[^0]
## Biopsychology B.S. <br> 8 Semester Plan

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| BIOL 160** | Molecular and Cellular Biology | 4 | BIOL 164** | Animal Form/Systematics (J-Term) | 2 |
| CHEM 105 | General Chemistry I | 4 | BIOL 166 | Principles Comparative Physiology | 2 |
| IDFY 101 | First Year Seminar* | 3 | CHEM 106 | General Chemistry II | 4 |
| PSYC 099** | Writing for Psychology | 1 | IDCR 151 | Created and Called for Comm.* | 3 |
| PSYC 101 | Introduction to Psychology | 3 | STAT 269 OR MATH xxx | Statistics (recommended) OR Mathematical Science | 3 |
| WELL 1xx | Wellness Course* | 1 |  |  |  |
|  |  | 16 |  | TOTAL | 17 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| BIBL 2xx | Encountering the Bible* | 3 | CHEM 310*** | Organic Chemistry II | 4 |
| BIOL 260** | Genetics and Development | 4 | Varies | Language course*/ elective | 3 |
| CHEM 309*** | Organic Chemistry I | 4 | PSYC 209 | Life Span Development | 1 |
| PSYC 204 OR | Cognition OR | 3 | PSYC 272 | Research Methods in Psychology | 3 |
| PSYC 319 | Abnormal Psychology |  | Varies | Elective | 3 |
| Varies or PSYC 271 | Language course* or Statistics (if MATH xxx taken) | 3 |  |  |  |
|  |  |  |  |  |  |
|  |  | 17 |  | TOTAL | 14 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| BIOL 387 | Neuroscience | 3 | BIOL xxx | Biology elective $\dagger$ | 3-4 |
| ENGL xxx | Literature* | 3 | COMM 105 | Fundamentals of Oral Communication* | 3 |
| Varies | Language or Cross-Cultural* | 3 | Varies | Language or Cross-Cultura** | 3 |
| PSYC 350 | Biological Basis of Behavior | 3 | PHIL 10x | Philosophy* | 3 |
| Varies | Elective | 3 | PSYC 351 | Sensation and Perception | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  | 15 |  | TOTAL | 15-16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| BIOL xxx | Biology elective | 3-4 | $\begin{aligned} & \left\|\begin{array}{l} \text { BIOLIPSYC } \\ 495 \end{array}\right\| \end{aligned}$ | Capstone Biology OR Psychology | 3 |
| Varies | Non-Western Studies* | 2-3 | HIST xxx | History* | 3 |
| PSYC 408 | Experimental Psychology | 3 | THEO/RELI | Christian Beliefs* | 3 |
| Varies | Ethics/World Views/Pluralism* | 3 | Varies | Art, Music, Theatre or Dance* | 3 |
| Varies | Elective | 3 | Varies | Elective | 3 |
|  |  |  |  |  |  |
|  |  | 14-16 |  | TOTAL | 15 |
| *QuEST requirement |  |  |  |  |  |

[^1]
## Environmental Science 8 Semester Plan

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| BIOL 160 | Molecular and Cellular Biology | 4 | BIOL 164 | Animal Form/Systematics (J-Term) | 2 |
| CHEM 105 | General Chemistry I | 4 | BIOL 166 | Principles Comparative Physiology | 2 |
| IDFY 101 | First Year Seminar* | 3 | BIOL 162 | Plant Biology | 3 |
| WELL 1xx | Wellness* | 1 | CHEM 106 | General Chemistry II | 4 |
| Varies | 1 st Language* | 3 | IDCR 151 | Created and Called for Community* | 3 |
|  |  |  | Varies | $2^{\text {nd }}$ Language | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 15 |  | TOTAL | 17 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| GEOL 201 | Foundations of Geology | 4 | BIOL 262 | Ecology \& Adaptation | 4 |
| CHEM 204 | Intro to Organic Chemistry | 4 | CHEM 240 | Environmental Chemistry ${ }^{+}$ | 4 |
| ENGL 174 | Literature \& the Environment | 3 | GIS 245 | Intro to Geo. Info. Systems | 3 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | STAT 269 | Statistics | 3 |
| ENVS 216 | Envi. Issues/Sust. Sol. (if BIOL 334 not taken) | 3 | Varies | 3 [rd Language or Cross-Cultural* | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 17 |  | TOTAL | 17 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ENVS 315 | Environmental Ethics | 3 | BIOL 3xx | Ornithology or Herpetology | 4 |
| ENVS 270/271 | Environmental Techniques | 2 | HIST 1xx | History* | 3 |
| BIBL 2xx | Encountering the Bible* | 3 | PHIL/RELI | Philosophy/Religion* | 3 |
| THEO/RELI | Christian Beliefs* | 3 | Varies | Arts* | 3 |
| Varies | Elective | 3 | Varies | Elective | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 14 |  | TOTAL | 16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| BIOL 332 | Plant Taxonomy/Systematics | 4 | ENVS 495 | Environmental and Sustainability Studies Capstone | 3 |
| BIOL 422 OR INTE 391 | Senior Research OR Internship | 1-4 | INTE 391 | Internship (if not taken in Fall) | 1-4 |
|  |  |  | IDCC 260 | Cross-Cultural | 3 |
| IDNW 2xx | Non-Western Studies | 2-3 | BIOL | Plant Ecology (if ENVS 216 not taken) | 4 |
| Varies | Electives | 1-3 | Varies | Elective | 3-5 |
|  |  |  |  |  |  |
| TOTAL |  | 8-14 |  | TOTAL | 14-19 |

Note 1: All Environmental Science majors must take CHEM 204 and CHEM 240. Those students intending to enter graduate school and whose work will involve a significant amount of chemical emphasis should substitute CHEM 309 and 310 for CHEM 204.

Note 2: All Environmental Science majors are encouraged to complete one course at AuSable Institute. AuSable courses can count only as elective credit. Majors are encouraged to do an internship and/or research experience.

+ Offered fall, odd years only.
++ Offered spring, even years only.


## Molecular Biology B.S. 8 Semester Plan

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| BIOL 160 | Molecular and Cellular Biology | 4 | BIOL 164 | Animal Form/Systematics (J-Term) | 2 |
| CHEM 105 | General Chemistry I | 4 | BIOL 166 | Principles Comparative Physiology | 2 |
| IDFY 101 | First Year Seminar* | 3 | BIOL 162 | Plant Biology | 3 |
| WELL 1xx | Wellness Course* | 1 | CHEM 106 | General Chemistry II | 4 |
| Varies | Social Science | 3 | COMM 105 | Fundamentals of Oral Communication* | 3 |
|  |  |  | IDCR 151 | Created and Called for Community* | 3 |
|  |  |  |  |  |  |
| TOTAL 15 |  |  | TOTAL |  | 17 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| BIOL 260 | Genetics and Development | 4 | CHEM 310 | Organic Chemistry II | 4 |
| CHEM 309 | Organic Chemistry 1 | 4 | BIBL 20x | Encountering the Bible* | 3 |
| MATH 108/111 | Calculus | 3/4 | STAT 269 | Introductory Statistics | 3 |
| IDNW 2xx | Non-Western Studies | 2/3 | Varies | Art, Music, Theatre or Dance* | 3 |
| Varies | 1st Language | 3 | Varies | $22^{\text {nd }}$ Language* | 3 |
|  |  |  |  |  |  |
| TOTAL $16-18$ |  |  | TOTAL |  | 16 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| BIOL 413 | Molecular Biology** | 4 | BIOL417 Molecular Genetics** |  | 4 |
| CHEM 410 | Biochemistry ${ }^{* *}$ | 4 | CHEM 412 | Biochemistry Ilixa | 4 |
| BIOL 385 | Physiology | 4 | HIST 1xx | History* | 3 |
| PHILRELI | Philosophy/Religion* | 3 | ENGL xxx | Literature* | 3 |
|  |  |  | Varies | $3^{\text {3 }}$ L Language or Cross-Cultural* | 3 |
|  |  |  |  |  |  |
| TOTAL 15 |  |  | TOTAL |  | 17 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| PHYS 201 | Intro to Physics ${ }^{\text {** }}$ | 4 | BIOL 412 | Cell Biology* | 4 |
| THEO/RELI | Christian Beliefs* | 3 | BIOLCHEM | Biology/Chemistry Elective | 4 |
| Varies | Ethics/World Views/Pluralism* | 3 | BIOL 495 | Natural Science Capstone | 3 |
| Varies | Elective | 3 | PHYS 202 | Intro to Physics \|*** | 4 |
| Varies | Elective | 3 |  |  |  |
|  |  |  |  |  |  |
|  |  | 16 |  | TOTAL | 15 |
| *QuEST requirement |  |  |  |  |  |

**Interchangeable between junior and senior year. Note that BIOL 413 is a pre-requisite for BIOL 417 , and that BIOL 417 is only offered every other spring.

## Sustainability Studies (B.A.) with Community Development concentration 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 | varies | $2^{\text {nd }}$ Language* | 3 |
| PHIL/RELI | Philosophy/Religion* | 3 | STAT 269 | Statistics or Quest mathematics | 3-4 |
| ENVS 140 | Intro to Ecology \& Sustainability** (meets lab sci) | 3 | SOCI 212 | Cultural Anthropology (meets NW) | 3 |
| varies | $1{ }^{\text {st }}$ Language course* | 3 | HIST $1 \times x$ | History* | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 15-16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| varies | 3 rd Language or Cross-Cultural* | 3 | Varies | Art, Music, Theatre or Dance* | 3 |
| BIBL 20x | Knowledge of the Bible* | 3 | WELL 1xx | Wellness Course* | 1 |
| Varies | Major Elective (ECON 117, POLI 113, SOCI 315 or STAT 269) | 3 | GIS 245 | Intro to Geographic Information System (alt year) or Major Elective (ECON 117, POLI 113, SOCI 315 or STAT 269) | 3 |
| ENVS 216 | Environmental Issues (meets STW) | 3 | BIOL 162 | Plant Biology | 3 |
| CHEM 103 | Chemical Science | 3 | ENGL 1xx | Literature* (suggested: 174) | 3 |
|  |  |  | Varies | Minor or Free Elective | 2-3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 15-16 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ENVS 315 | Environmental Ethics (meets Ethics) | 3 | SOCI 310 | Food, Power and Society (meets social sci) | 3 |
| BIOL 334 | Plant Ecology | 3 | BIOL 335 | Plant Propagation | 3 |
| Varies | Concentration Elective | 3 | GIS 245 | Intro to Geographic Information System (alt year) or Major Elective (ECON 117, POLI 113, SOCI 315 or STAT 269) | 3 |
| varies | Minor or Free Elective | 3 | Varies | Concentration Elective | 3 |
| Varies | Concentration Elective | 3 | varies | Minor or Free Elective | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 |  | TOTAL | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| varies | Minor or Free Elective or Study Abroad | 3 | SUST 495 | Environmental Science and Sustainability Capstone | 3 |
| varies | Minor or Free Elective or Study Abroad | 3 | $\begin{aligned} & \text { INTE } 391 \text { OR } \\ & \text { SOCI } 395 \end{aligned}$ | Internship Practicum | 3 |
| varies | Minor or Free Elective or Study Abroad | 3 | varies | Minor or Free Elective | 3 |
| varies | Minor or Free Elective or Study Abroad | 3 | varies | Minor or Free Elective | 3 |
| varies | Minor or Free Elective or Study Abroad | 3 | varies | Minor or Free Elective | 3 |
|  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |
|  |  | 15 |  | TOTAL | 15 |

- ECON 117 and GIS 245 alternate years but BOTH occur in the same spring).
- This does not include your AuSable Institute options of BIOLIAGRICIGEOG 303- Tropical Agriculture which meets in May term in Costa Rica or BIOLAGRICIGEOG 343 International Development and Environmental Sustainability which meets in Washington State mid-July through Mid-August. Financial Aid deadlines for these courses are $12 / 15$ of the winter before, $2 / 15$ and $3 / 15$ of the course year.


## 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 <br> for | And should enroll in |
| :--- | :--- | :--- | :--- |
| Computer Science A | 3,4 , or 5 | CIS 181 (3 credits) | CIS 182 |
| Computer Science AB | 34 or 5 | CIS 181 (3 credits) <br> CIS 181, 182 (6 credits) | CIS 182, CIS 281 |
| Calculus AB | 3 or 4 5 | MATH 111 (4 credits) <br> MATH 111, 112 (8 credits) | MATH 112 <br> MATH 112 or MATH 211 |
| Calculus BC | 234 or 5 | MATH 111 (4 credits) <br> MATH 111,112 (8 credits) <br> MATH 111,112, 211 (12 <br> credits) | MATH 112 <br> MATH 112 or MATH 211 <br> MATH 261 or MATH 308 |
| Physics B | 34 or 5 | PHYS 201 (4 credits) <br> 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


## 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 | $2^{\text {nd }}$ language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| Varies | ${ }^{\text {st }}$ language* | 3 | MATH 107, 108 or 111 | Applied Math for Management, intuitive Calculus with App., or Calculus I | 3-4 |
| BUSA 120 | Principles of Management | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16 | TOTAL |  | 15-16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| CIS 190 | Strategic Use of Information Technology | 3 | ECON 220 | Princiiples of Microeconomics | 3 |
| ENGL xxx | Literature* (1st or 2nd year) | 3 | HIST $x$ xx | History* (1st or ${ }^{\text {nd }}$ year) | 3 |
| Varies | Laboratory Science* (1st year) | 3-4 | Varies | HRM or LEAD Elective | 3 |
| MRKT 130 | Marketing Principles | 3 | Varies | $3^{\text {rd }}$ language/Cross Cultura** $2^{\text {rd }}$ or $3^{\text {rd }} \mathrm{yr}$ ) | 3 |
| WELL xxx | Wellness course* (1st or 2nd year) | 1 | STAT 281 | Applied Statistics for Management | 3 |
| ACCT 242 | Managerial Accounting | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16-17 | TOTAL |  | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| BIBL 20x | Knowledge of the Bible* (2nd year) | 3 | Varies | Art, Music or Theatre ( ${ }^{\text {fst }}$ or $2^{\text {nd }}$ 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* ( $2^{\text {rd }}$ or $3^{\text {rd }}$ year) | 3 |
| Varies | Major Elective | 3 | FINA 305 | Financial Management | 3 |
| Varies | Free Elective | 3 | Varies | Major Elective | 3 |
|  |  |  |  |  |  |
| TOTAL 15 |  |  | TOTAL |  | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| IDST xxx | Science, Tech, \& World* (3) ${ }^{\text {rd }}$ or $4^{\text {th }}$ year) | 3 | BUSA 459 | Strategic Management | 3 |
| IDNW xxx | Non-Western Studies* (2nd or 3 ${ }^{\text {rd }}$ 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 |  | 17-18 | TOTAL |  | 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 | $2^{\text {nd }}$ Language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| IDFY 101 | First Year Seminar* | 3 | MATH 107, 108 or 111 | Applied Math for Management, intuitive Calculus with App., or Calculus I | 3-4 |
| Varies | $1{ }^{\text {st }}$ Language* | 3 | CIS 190 | Strategic Use of Information Technology | 3 |
| BUSA 120 | Principles of Management | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 15-16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| ACCT 242 | Managerial Accounting | 3 | HIST xxx | History* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year)) | 3 |
| ENGL xxx | Literature* ( $1^{\text {st }}$ o $2^{\text {nd }}$ year) | 3 | BIBL 20x | Knowledge of the Bible ( $2^{\text {nd }}$ year) | 3 |
| Varies | Laboratory Science* (1styear) | 3-4 | Varies | $33^{\text {rd }}$ language/Cross Cultura** $2^{\text {nd }}$ or 3 rd yr ) | 3 |
| MRKT 130 | Marketing Princiiples | , | STAT 281 | Applied Statistics for Management | 3 |
| WELL xxx | Wellness course* $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 1 | Varies | Free Elective | 3 |
| ECON 220 | Principles of Microeconomics | 3 | Varies | Free Elective | 3 |
|  | TOTAL | 16-17 | TOTAL |  | 18 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| MRKT 339 | Market Research | 3 | varies | Art, Music or Theatre* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| PHIL/RELI | Philosophy/Religion* (1stor ${ }^{\text {ndd }}$ year) | 3 | BUSA 381 | Business Law | 3 |
| BUSA 380 | Small Business Development | 3 | THEO 2xx | Christian Beliefs* (2 ${ }^{\text {nd }}$ or $3^{\text {rd }} \mathrm{yr}$ ) | 3 |
| Varies | Major Elective | 3 | Varies | Free Elective | 3 |
| FINA 305 | Financial Management | 3 | BUSA 385 | Entrepreneurship | 3 |
| Senior - Fall |  |  | TOTAL |  | 15 |
|  |  |  | Senior - Spring |  |  |
| IDST xxx | Science, Tech, \& World* ( $3^{\text {rd }}$ yr or $4^{\text {tit }}$ ) | 3 | BUSA 459 | Strategic Management | 3 |
| IDNW xxx | Non-Western Studies* (2 ${ }^{\text {nd }}$ or $3^{\text {rd }} \mathrm{yr}$ ) | 2-3 | BUSA 356, 360, 405 or ECON 302 | Decision-Making Tools, Operations Management, Supply Chain Management, or 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 |  | 14-15 |  | TOTAL | 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 | $2^{\text {nd }}$ language* (1st or ${ }^{\text {nd }}$ year) | 3 |
| Varies | 1 st language* | 3 | MATH 107, 108 or 111 | Applied Math for Management, intuitive Calculus with App., or Calculus I | 3-4 |
| BUSA 120 | Principles of Management | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | 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* (1st or $2^{\text {nd }}$ year) | 3 |
| ENGL xxx | Literature* (1st or $2^{\text {nd }}$ year) | 3 | HRM 301 | Human Resource Management | 3 |
| HRM 311 | Organizational Behavior | 3 | PHIL/RELI | Philosophy/Religion* (1st or 2nd year) | 3 |
| MRKT 130 | Marketing Principles | 3 | STAT 281 | Applied Statistics for Management | 3 |
| WELL xxx | Wellness course* (1st or 2nd year) | 1 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16-17 | TOTAL |  | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| BIBL 20x | Knowledge of the Bible* (2 $2^{\text {nd }}$ or $3^{\text {rd }}$ year) | 3 | Varies | Art, Music or Theatre* (1st or ${ }^{\text {ndu }}$ year) | 3 |
| Varies | 3 rd language/Cross Cultural* (2nd or $3^{\text {ra }} \mathrm{yr}$ ) | 3 | BUSA 381 | Business Law | 3 |
| HRM 312 | Leading Organizational Change | 3 | THEO 2xx | Christian Beliefs* (2 ${ }^{\text {nd }}$ or $3^{\text {rad }}$ year) | 3 |
| Varies | Major Elective | 3 | FINA 305 | Financial Management | 3 |
| Varies | Free Elective | 3 | Varies | Laboratory Science* (1st year) | 3-4 |
|  |  |  |  |  |  |
| TOTAL 15 |  |  | TOTAL |  | 15-16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| IDST xxx | Science, Tech, \& World* (3rd or 4th year) | 3 | BUSA 459 | Strategic Management | 3 |
| IDNW xxx | Non-Western Studies* (2nd or 3rd 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 |  | 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 | $2^{\text {nd }}$ language* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| Varies | $1{ }^{\text {st }}$ language* | 3 | MATH 107, 108 or 111 | Applied Math for Management, intuitive Calculus with App., or 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* (1st or 2nd year) | 3 |
| ENGL xxx | Literature* (1st or $2^{\text {nd }}$ year) | 3 | BUSA 310 | Business as a Ministry | 3 |
| Varies | Laboratory Science* (1st year) | 3-4 | Varies | $3^{\text {rd }}$ language/Cross Cultural* (2nd or $3^{\text {rd }} \mathrm{yr}$ ) | 3 |
| MRKT 130 | Marketing Principles | 3 | STAT 281 | Applied Statistics for Management | 3 |
| WELL xxx | Wellness course* (1st or 2nd year) | 1 | Varies | Free Elective | 3 |
| ECON 220 | Principles of Microeconomics | 3 | Varies | Free Elective | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 16-17 | TOTAL |  | 18 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| BIBL 20x | Knowledge of the Bible* (2nd year) | 3 | varies | Art, Music or Theatre* (1st or ${ }^{\text {ndu }}$ year) | 3 |
| PHIL/RELI | Philosophy/Religion* (1st or 2 nd year) | 3 | BUSA 381 | Business Law | 3 |
| LEAD 310 | Leadership Theory \& Development | 3 | THEO 2xx | Christian Beliefs* (2nd or 3rd 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 15 |  |  | TOTAL |  | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| IDST xxx | Science, Tech, \& World* (3rd or ${ }^{\text {th }}$ y year) | 3 | BUSA 459 | Strategic Management | 3 |
| IDNW xxx | Non-Western Studies* (2 ${ }^{\text {nd }}$ or $3^{\text {ra }}$ year) | 2-3 | Varies | Major Elective | 3 |
| COMM 301, 333, 353 or HRM 311 | Persuasion, Business \& Org. Communication, Crisis Comm \& Media Relations, or 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 | 14-15 |  | TOTAL | 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 | $2^{\text {nd }}$ language* ( $1^{\text {St }}$ or $2^{\text {nd }}$ year) | 3 |
| Varies | ${ }^{\text {st }}$ language* | 3 | MATH 107, 108 or 111 | Applied Math for Management, intuitive Calculus with App., or 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* ( $1^{\text {si }}$ or ${ }^{\text {nota }}$ year) | 3 |
| ENGL xxx | Literature* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 | Varies | 3rd language/Cross Cultura** (2rd or $3^{\text {rd }} \mathrm{yr}$ ) | 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* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 1 | Varies | Free Elective | 3 |
| ECON 220 | Princiiples of Microeconomics | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16-17 | TOTAL |  | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| BIBL 20x | Knowledge of the Bible* (2nd year) | 3 | varies | Art, Music or Theatre* (1st or ${ }^{\text {nd }}$ year) | 3 |
| PHIL/RELI | Philosophy/Religion* (1st or $2^{\text {nd }}$ year) | 3 | BUSA 381 | Business Law | 3 |
| Varies | Free Elective | 3 | THEO 2xx | Christian Beliefs* (2nd or 3rd 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 459 | Strategic Management | 3 |
| IDNW xxx | Non-Western Studies* (2nd or $3^{\text {rd }}$ 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 ${ }^{*}$ | 3-4 | STAT 269 or STAT 281 | Introductory Statistics | 3 |
| Varies | $1{ }^{\text {st }}$ language** | 3 | Varies | $2^{\text {nd }}$ lanauage* (1st or $2^{\text {nd }}$ year) | 3 |
| TOTAL |  | 16-17 | TOTAL |  | 16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| Varies | $3^{\text {rd }}$ Language or Cross Cultura** | 3 | HIST 1xx | History* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) meeting QuEST | 3 |
| BIBL 20x | Knowledge of the Bible* (2nd year) | 3 | PHIL/RELI | Philosophy/Religion* (1st or 2nd year) | 3 |
| SOCI 212 | Cultural Anthropology* | 3 | ACCT 131 | Survey of Accounting | 3 |
| MRKT 130 | Marketing Principles | 3 | ECON 312 | Economic Development I | 3 |
| $\begin{aligned} & \text { POLI } 212 \text { or } \\ & 213 \end{aligned}$ | 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 | $\begin{aligned} & \text { ECON } 303 \text { or } \\ & \text { IBI } 331 \end{aligned}$ | 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 ${ }^{\text {nd }}$ or 3 rdd year) | 3 | Varies | Laboratory Science* | 3-4 |
| Varies | Free Elective | 3 | Varies | Ethics/World View/Pluralism*** | 3 |
| Senior-Fall $\quad$ TOTAL 15 |  |  |  |  |  |
|  |  |  | Senior - Spring |  |  |
| ECON 301 or ECON 302 | Intermediate Macroeconomics or Intermediate Microeconomics | 3 | BUSA 459 | Strategic Management | 3 |
| $\begin{aligned} & \text { IBI } 350 \text { or } \\ & \text { IBUS } 375 \end{aligned}$ | International Trade and Finance or International Business and World Economy | 3 | Varies | Economic Development Elective | 3 |
| Varies | Art, Music or Theatre* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ 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 |

[^2]
## Economics (B.A.) <br> 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 | Princiiples of Microeconomics | 3 |
| BUSA 102 | Opportunities in Business | 1 | WELL xxx | Wellness course* ( 1 st or 2nd year) | 1 |
| MATH 108 or MATH 111 | Intuitive Calculus with Applications or Calculus ${ }^{*}$ | 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* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) meeting QuEST | 3 |
| MRKT 130 | Marketing Princiiples | 3 | varies | Art, Music or Theatre* ( 1 st or 2nd year) | 3 |
| TOTAL 15 |  |  | TOTAL |  | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ECON 301 or ECON 302 | Intermediate Macroeconomics or Intermediate Microeconomics | 3 | $\begin{aligned} & \text { ECON } 303 \text { or } \\ & \text { \|BI } 331 \end{aligned}$ | Comparative Political Economy or | 3 |
| ECON or IBUS | Economics Option | 3 |  | Comparative Economic Systems |  |
| THEO 2xx | Christian Beliefs* (2nd or 3rd year) | 3 | ECON | Economics Option | 3 |
| Varies | Ethics/World View/Pluralism*** | 3 | Varies | Laboratory Science* | 3-4 |
| 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.) <br> 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 ${ }^{*}$ | 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 1 xx | Literature* meeting QuEST | 3 |
|  |  |  |  |  |  |
| TOTAL 15 |  |  | TOTAL |  | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ECON 301 or ECON 302 | Intermediate Macroeconomics or Intermediate Microeconomics | 3 | $\text { ECON } 303 \text { or }$ | Comparative Political Economy or | 3 |
| ECON or IBUS | Economics Option | 3 |  | Comparative Economic Systems |  |
| BUSA 381 | Business Law | 3 | ECON | Economics Option | 3 |
| HIST 1xx | History* (1st or 2nd year) meeting QuEST | 3 | BUSA 356 | Decision- Making Tools in Management | 3 |
| Varies | Art, Music or Theatre* (1st or 2nd year) | 3 | THEO 2xx | Christian Beliefs* (2nd or 3rd year) | 3 |
|  |  |  | Varies | Science, Tech \& the World ** | 3 |
|  |  |  |  |  |  |
| TOTAL 15 |  |  | TOTAL |  | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| $\text { ECON } 301 \text { or }$ $\text { ECON } 302$ | Intermediate Macroeconomics or Intermediate Microeconomics | 3 | ECON | Economics option | 3 |
| ECON or IBUS | Economics Option | 3 | BUSA 459 | Strategic Management | 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 |

[^3]
# 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 or 111 | Applied Math for Management, Intuitive Calculus with App., or 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* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 | HIST xxx | History* (1st or ${ }^{\text {nd }}$ year) | 3 |
| Varies | Laboratory Science* (1st year) | 3-4 | Varies | Art, Music or Theatre* (15t or ${ }^{\text {nd }}$ dear) | 3 |
| MRKT 130 | Marketing Priinciples | 3 | STAT 281 | Applied Statistics for Management | 3 |
| WELL xxx | Wellness course* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ 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* $2^{\text {nd }}$ year) | 3 | FINA 305 | Financial Management | 3 |
| PHILRELI | Philosophy/Religion* (1st or ${ }^{\text {nd }}$ year) | 3 | BUSA 381 | Business Law | 3 |
| IBUS 375 | International Business \& World Economy | 3 | BUSA 310 or IBUS 342 | Business as a Ministry Global Entrepreneurship | 3 |
| Varies | Ethics/World Views/Pluralism* | 3 | Varies | Free Elective | 2 |
| BUSA 405 or POLI 212 | Supply Chain Management International Politics | 3 | ECON 312 or HRM 311 | Economic Development Organizational Behavior | 3 |
|  |  |  | THEO 2xx | Christian Beliefs* (2nd or $3^{\text {rd }}$ 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 $x \mathrm{xx}$ | Science, Tech, \& World* (3) ${ }^{\text {rd }}$ or $4^{\text {th }}$ vear) | 3 |  |  |  |
| IDNW xxx | Non-Western Studies* (2nd or 3rd year) | 2-3 |  |  |  |
| BUSA 459 | Strategic Management | 3 |  |  |  |
| Varies | Free Elective | 3 |  |  |  |
| Varies | Free Elective | 3 |  |  |  |
| TOTAL |  | 14-15 |  | TOTAL | 0 |

## Business Administration (B.A.) <br> 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 | 2nd lanauaae* (1st or 2nd vear) | 3 |
| IDFY 101 | First Year Seminar* | 3 | BUSA 120 | Principles of Management | 3 |
| Varies | 1 st lanauace* | 3 | Varies | Primary Major Course | 3 |
| Varies | Primary Major Course | 3 | Varies | Primary Major Course | 3 |
|  |  |  |  |  |  |
| TOTAL 16 |  |  | TOTAL 18 |  |  |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| CIS 190 | Strategic Use of Information Technology | 3 | ECON 220 | Principles of Microeconomics | 3 |
| ENGL xxx | Literature* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 | HIST xxx | Historv* (1st or 2nd vear) | 3 |
| Varies | Laboratorv Science* ( ${ }^{\text {st }}$ vear) | 3-4 | Varies | 3rd lannuanol(rnce. Cultural* (and or ard ur). | 3 |
| MRKT 130 | Marketing Principles | 3 | Varies | Primary Major Course | 3 |
| WELL xxx | Wellness course* ( ${ }^{\text {st }}$ or ${ }^{\text {2nd }}$ year) | 1 | MATH 107, 108 or 111 | Applied Math for Management, Intuitive Calculus with App., or Calculus I | 3-4 |
| ACCT 242 | Managerial Accounting | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16-17 | TOTAL |  | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| BIBL 20x | Knowledae of the Bible* (2nd vear) | 3 | varies | Art, Music or Theatre* ( st $^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| PHIL/RELI | Philosophy/Religion* (19t or ${ }^{\text {nd }}$ 年 year) | 3 | BUSA 381 | Business Law | 3 |
| INTE 391 | Internship | 2 | THEO 2xx | Christian Beliefs* (2nd or 3rd year) | 3 |
| Varies BUSA <br> $3 x x$ or $4 x x$ | 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 | TOTAL |  | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| IDST $x \times x$ | Science, Tech, \& World* (3rd or $4^{\text {th }}$ year) | 3 | BUSA 459 | Strategic Management | 3 |
| IDNW xxx | Non-Western Studies* (2nd or 3rd year) | 2-3 | Varies | Ethics/World View/Pluralism* | 3 |
| $\begin{aligned} & \text { Varies } 3 x x \text { or } \\ & 4 x x x \end{aligned}$ | 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 | 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 | $2^{\text {nd }}$ language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| Varies | $1{ }^{\text {st language*}}$ | 3 | varies | Laboratory Science* ( $1{ }^{\text {st }}$ year) | 3-4 |
| MATH 107, 108 or 111 | Applied Math for Management, intuitive Calculus with App., or 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 | $3^{\text {rd }}$ language or Cross Cultural ${ }^{*}$ (2 $2^{\text {nd }}$ or $3^{\text {rd }}$ year) | 3 | ENGL xxx | Literature* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| WELL xxx | Wellness activity* (19tor $2^{\text {nd }}$ year) | 1 | varies | History* | 3 |
| ECON 220 | Principles of Microeconomics | 3 | BIBL 20x | Knowledge of the Bible ( $1{ }^{\text {st }}$ or $2^{\text {nd }}$ 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* (19t or 2nd year) | 3 | ARTS xxx | Ars** (1st or ${ }^{\text {ntd }}$ year) | 3 |
| IDNW xxx | Non-Western Studies* (2nd or $3^{\text {rd }}$ year) | 2-3 | THEO 2xx | Christian Beliefs* (2 $2^{\text {nd }}$ or $3^{\text {rd }}$ year) | 3 |
| BUSA 381 | Business Law | 3 | MRKT 362/4 | Social Media or Digital Marketing | 3 |
| MRKT 339 | Market Research | 3 | MRKT xx | 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 ${ }^{\text {* }}$ (3rd or $4^{\text {th }}$ year) | 3 | IDS xxx | Ethics/Pluralism/World Views* | 3 |
| BUSA 459 | Strategic Management | 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.)

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 | $2^{\text {na }}$ language* ( $1^{\text {St }}$ or $2^{\text {nd }}$ year) | 3 |
| Varies | $1{ }^{\text {st }}$ language* |  | Varies | Laboratory Science* (1st year) | 3-4 |
| MATH 108 or MATH 111 | Intuitive Calculus with Applications (3) 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 | $3^{\text {rd }}$ language/Cross Cultural* $2^{\text {ndd }}$ or $3^{\text {rad }}$ | 3 | ENGL xxx | Literature* ( st $^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| ECON 220 | Principles of Microeconomics | 3 | HIST | History ${ }^{*}$ ( ${ }^{\text {stt }}$ or ${ }^{\text {2nd }}$ year) | 3 |
| MRKT 130 | Marketing Principles | 3 | WELL xxx | Wellness course* ( ${ }^{\text {St }}$ 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* (1st or ${ }^{\text {2nd }}$ year) | 3 | varies | Art, Music or Theatre* (1st or ${ }^{\text {nd }}$ year) | 3 |
| BIBL 20x | Knowledge of the Bible* (2nd year) |  | FINA 405 | Corporate Finance |  |
| BUSA 381 | Business Law | 3 | FINA 415 | Financial Institution Management | 3 |
| FINA 307 | Money and Financial Markets | 3 | THEO 2xx | Christian Beliefs* (2nd or 3rd year) | 3 |
| FINA 351 | Investments | 3 | ACCT 301 | Intermediate Accounting I | 3 |
|  | Elective | 3 |  |  |  |
| TOTAL |  | 18 | TOTAL |  | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| BUSA 459 | Strategic Management | 3 | FINA 450/475 | Securities Industry Brokerage Preparation or Advanced Corp. Finance | 3 |
| FINA 410 | Security Analysis \& Valuation |  | IDS xxx | Ethics/Pluralism/World Views ${ }^{\text {* }}$ (3rd or $4^{\text {th }}$ | 3 |
| IDST xxx | Science, Tech, \& World* (3rd or $4^{\text {th }}$ | 3 |  | Elective | 3 |
| IDNW xxx | Non-Western Studies* ${ }^{*}$ (2da or $3^{\text {rad }}$ 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.

There are two placement options for General Chemistry I. The preferred option is the completion of a preparatory course through the ALEKS learning platform. This course must be completed in full by the Friday before you arrive on campus. An email will be sent to all students registered for CHEM 105 by the end of June with instructions regarding this course. For those students not completing the preparatory course, the Toledo Placement Exam of the American Chemical Society will be administered 8:00 AM on Monday of new student orientation. This exam contains a total of 60 questions: 20 are entirely mathematics, 20 are from general chemistry knowledge, and 20 are from specific chemistry content. A score of 35 , out of 60 , is sufficient for continued enrollment in General Chemistry I, CHEM 105. You may also remain in CHEM 105 if your score is between 28-34 AND you have at least 14 of 20 points from the math portion of the exam. Students who do not earn this score will be required to enroll in Introduction to College Chemistry (CHEM 101). This course will prepare you well for General Chemistry I. The student needing CHEM 101 and his or her advisor will be notified before advising sessions on Monday afternoon of new student orientation.


More information regarding this placement exam can be found at:
http://www.messiah.edu/info/20201/department_of_chemistry_and_biochemistry/566/general_chemistry _placement_exam

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



## Biochemistry (B.S.) <br> 8 Semester Plan



## 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 | Calculus I | 4 | CHEM 106 | General Chemistry II | 4 |
| BIOL 160 | Molecular \& Cellular Biology | 4 | Varies | $1{ }^{\text {st }}$ Language* | 3 |
|  |  |  | COMM 105 | Introduction to Oral Communication* | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  | 15 | TOTAL |  | 17 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| CHEM 309 | Organic Chemistry I | 4 | Varies | 3 rd language or Cross Cultura** | 3 |
| CHEM 221 | Chemical Analysis I*** | 4 | PHYS 211 | General Physics I | 4 |
| BIOL 260 | Genetics \& Development | 4 | CHEM 310 | Organic Chemistry II | 4 |
| PHIL 101/102 | Philosophy* | 3 | BIBL 20x | Knowledge of the Bible* | 3 |
| Varies | $2{ }^{\text {nd }}$ Language* | 3 | WELL 1xx | Wellness Activity Course* | 1 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL 18 |  |  |  | TOTAL | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| CHEM 410 | Biochemistry I | 4 | CHEM 321 | Chemical Analysis I*** | 4 |
| Varies | 1 st History/Social Science* | 3 | Varies | $2^{\text {nd }}$ History/Social Science* | 3 |
| PHYS 212 | General Physics II | 4 | CHEM 412 | Biochemistry I*** | 4 |
| ENGL xxx | Literature* | 3 | Varies | Elective | 3 |
| THEO 20x | Christian Beliefs* | 3 | CHEM 393 | Research Methods | 1 |
|  |  |  | CHEM 390 | Junior Chemistry Seminar | 1 |
|  |  |  |  |  |  |
| TOTAL 17 |  |  |  | TOTAL | 16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| BIOL xxx | Advanced Biology Electiv** | 4 | CHEM xxx | Advanced Chemistry Elective** | 3-3.5 |
| CHEM 437 | Physical Chemistry ${ }^{* *}$ | 3.5 | CHEM 495 | Natural Sciences Capstone | 3 |
| CHEM 422 | Senior Research | 2 | Varies | Art, Theatre, Music or Dance* | 3 |
| IDSW xxx | Non-Western Studies* | 2-3 | CHEM 422 | Senior Research | 1 |
| CHEM 490 | Senior Chemistry Seminar | 1 | IDS xxx | Ethics/World Views/Pluralism* | 3 |
| CHEM 361 | Inorganic Chemistry** | 4 | BIOL $x$ xx | Recommended biology course (optional) |  |
|  |  |  |  |  |  |
|  |  | $\begin{aligned} & 16.5- \\ & 17.5 \end{aligned}$ |  | TOTAL | $\begin{aligned} & 13- \\ & 13.5 \end{aligned}$ |
| *QuEST requirement able between Junior and Senior years between Sophomore and Junior years |  |  |  |  |  |

## Biochemistry (B.A.)/PharmD

## 6 Semester Plan



The Oral Communication course is missing from this three-year plan. This course, or another required QuEST course should be taken over the summer.

## 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 | Calculus I | 4 | MATH 112 | Calculus II | 4 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| Varies | 1st Language* | 3 | COMM 105 | Oral Communications* | 3 |
|  |  |  | Varies | $2^{\text {nd }}$ Language* | 3 |
|  |  |  |  |  |  |
| Sophomore-Fall TOTAL 14 |  |  | TOTAL |  | 17 |
|  |  |  | Sophomore - Spring |  |  |
| CHEM 309 | Organic Chemistry 1 | 4 | CHEM 310 | Organic Chemistry II | 4 |
| CHEM 221 | Chemical Analysis I | 4 | PHYS <br> 211/212 | General Physics I or General Physics II | 4 |
| Varies | 1st History/Social Science* | 3 | Varies | $3{ }^{\text {rd }}$ Language / Cross Cultural* | 3 |
| BIBL 2xx | Knowledge of the Bible* | 3 | Varies | $2^{\text {nd }}$ History/Social Science* | 3 |
| PHYS 211 | General Physics I (optional) | 4 | WELL 1 xx | Wellness Activity Course* | 1 |
|  |  |  |  |  |  |
|  |  |  | TOTAL |  | 16 |
|  |  |  | Junior - Spring |  |  |
| CHEM 437 | Physical Chemistry I | 3.5 | CHEM 3xx | Chemistry Elective** | 3-4 |
| PHYS 212 | General Physics II (optional) | 4 | CHEM 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 16.5 |  |  | TOTAL |  | 17-18 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| CHEM 3xx | Chemistry Elective** | 4 | CHEM 3xx | Chemistry Elective ${ }^{* *}$ | 3-4 |
| CHEM 422 | Senior Research (optional) | 3 | CHEM 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 |  |  |  |
|  |  |  |  |  |  |
|  |  | 14 |  | TOTAL | 15-16 |
| *QuEST requirement <br> able 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 | Calculus I | 4 | MATH 112 | Calculus II | 4 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| Varies | 1 ist Language* $^{\text {a }}$ | 3 | COMM 105 | Oral Communications* | 3 |
|  |  |  | Varies | $2^{\text {nd }}$ Language* | 3 |
|  |  |  |  |  |  |
| Sotal 14 |  |  |  | TOTAL | 17 |
|  |  |  | Sophomore - Spring |  |  |
| CHEM 309 | Organic Chemistry I | 4 | CHEM 310 | Organic Chemistry II General Physics I or General Physics II | 4 |
| CHEM 221 | Chemical Analysis I | 4 | $\begin{array}{\|l\|} \hline \text { PHYS } \\ 211 / 222 \end{array}$ |  | 4 |
| Varies | 1st 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 |
| PHYS 211 | General Physics I (optional) | 4 | Varies | $33^{\text {rd }}$ Language / Cross Cultural* | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL 18 |  |  | TOTAL |  | 15-16 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| CHEM 437 | Physical Chemistry ${ }^{\text {** }}$ | 3.5 | CHEM 438 | Physical Chemistry Il** | 3.5 |
| CHEM 361 | Inorganic Chemistry** | 4 | CHEM 393 | Research Methods (optional) | 1 |
| PHYS 212 | General Physics II (optional) | 4 | CHEM 390 | Junior Chemistry Seminar | 1 |
| PHIL 101/102 | Philosophy* | 3 | CHEM 321 | Chemistry Analysis II** | 4 |
|  |  |  | IDSW xxx | Non-Western Studies* | 2-3 |
|  |  |  | Varies | $2^{\text {nd }}$ History/Social Science* | 3 |
|  |  |  |  |  |  |
| TOTAL 14.5 |  |  | TOTAL |  | $14.5-$ |
|  |  |  | Senior - Spring |  |  |
| CHEM 410 | Biochemistry Ior Elective ${ }^{* *}$ | 4 | CHEM 342 | Advanced Synthesis Lab** | 3 |
| CHEM 422 | Senior Research (optional) | 3 | CHEM 495 | Natural Sciences Capstone | 3 |
| CHEM 490 | Senior Chemistry Seminar | 1 | IDS xxx | Ethics/World View/Pluralism* | 3 |
| THEO 2xx | Christian Beliefs* | 3 | Varies | Electives | 6 |
| Varies | Art, Theatre, Music or Dance* | 3 |  |  |  |
| ENGL xxx | Literature* | 3 |  |  |  |
|  |  |  |  |  |  |
|  |  | 17 |  | TOTAL | 14 |
| *QuEST requirement |  |  |  |  |  |

## Chemistry (B.S.) ACS Certified <br> 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 | Calculus I | 4 | 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 | $2^{\text {nd }}$ Language* | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 14 | TOTAL |  | 17 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| CHEM 309 | Organic Chemistry 1 | 4 | CHEM 310 | Organic Chemistry II | 4 |
| CHEM 221 | Chemical Analysis I | 4 | PHYS 211/212 | General Physics I or General Physics II | 4 |
| Varies | 1st 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 |
| PHYS 211 | General Physics I (optional this term) | 3 | Varies | $3^{\text {rd }}$ Language / Cross Cultural* | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 17 |  | TOTAL | 15-16 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| CHEM 437 | Physical Chemistryl | 3.5 | CHEM 438 | Physical Chemistry II** | 3.5 |
| CHEM 361 | Inorganic Chemistry** | 4 | CHEM 393 | Research Methods | 1 |
| PHYS 212 | General Physics II (optional this term) | 4 | CHEM 390 | Junior Chemistry Seminar | 1 |
| PHIL 101/102 | Philosophy* | 3 | CHEM 321 | Chemistry Analysis II** | 4 |
| Varies | $2^{\text {nd }}$ History/Social Science* | 3 | IDSW xxx | Non-Western Studies* | 2-3 |
|  |  |  |  | Elective | 3-4 |
|  |  |  |  |  |  |
|  | TOTAL | 17.5 | TOTAL |  | $\begin{gathered} 14.5- \\ 16.5 \end{gathered}$ |
| Senior - Fall |  |  | Senior - Spring |  |  |
| CHEM 410 | Biochemistry I | 4 | CHEM 342 | Advanced Synthesis Lab** | 3 |
| CHEM 422 | Senior Research | 2 | CHEM 495 | Natural Sciences Capstone | 3 |
| CHEM 490 | Senior Chemistry Seminar | 1 | IDS xxx | Ethics/World View/Pluralism* | 3 |
| THEO 2xx | Christian Beliefs* | 3 |  | Electives | 6 |
| Varies | Art, Theatre, Music or Dance* | 3 | CHEM 422 | Senior Research | 1 |
| ENGL xxx | Literature* | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 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 105a | General Chemistry I | 4 | CHEM 106 | General Chemistry II | 4 |
| MATH 111a | Calculus I | 4 | MATH 112 | Calculus II | 4 |
| COMM 105 | Oral Communication* | 3 | ENGL122-176a | Literature | 3 |
| IDFY 101 | First Year Seminar* | 3 | ESS 201 | Earth and Space Science | 3 |
| Varies | $1{ }^{\text {st }}$ Language* | 3 | IDCR 151 | Created and Called for Community* | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 17 |  | 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 |
| EDUC 346 | Sociocultural Perspectives on Education | 3 | EDSP 207c | Intro to Special Ed | 3 |
| Varies | 2nd Language* | 3 | EDUC 203 ${ }^{\circ}$ | Educational Psychology | 3 |
| BIBL 2xx | Encountering the Bible* | 3 | TEP 210 ${ }^{\circ}$ | Soph. Field Experience | 0 |
|  |  |  | Varies | 3rd language or Cross Cultural | 3 |
|  |  |  |  | TOTAL |  |
| TOTAL 17 |  |  |  |  | 17 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| CHEM 437 | Physical Chemistry ${ }^{* *}$ | 3.5 | CHEM $x \times x$ | Chemistry Elective | 3-4 |
| PHIL 101/102 | Philosophy | 3 | CHEM 390 | Junior Chemistry Seminar | 1 |
| PHYS 212 | General Physics II | 4 | ENGL 330 ${ }^{\circ}$ | TESOL Methodology | 3 |
| Varies | 1 st History/Social Science* | 3 | EDUC 331¢ | Instructional Design/ Assessment | 3 |
| WELL 1xx | Wellness Activity Course* | 1 | EDSP 307c | Inclusion Practices | 3 |
|  |  |  | EDUC 310 ${ }^{\circ}$ | Junior Field Experience | 0 |
|  |  |  | CHEM xxx | Chemistry Elective | 4 |
|  |  |  |  |  |  |
|  | TOTAL | 14.5 | TOTAL |  | 17-18 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| CHEM xxx | Chemistry Elective | 4 |  | Professional Semester |  |
| CHEM 495 | Natural Sciences Capstone | 3 | HDFS 311 | Adolescent Development | 3 |
| THEO 223 | Global Christian Theology | 3 | TEP 435 ${ }^{\circ}$ | Student Teaching | 8 |
| Varies | Art, Theatre, Music or Dance* | 3 | EDUC 420' | Professional Issues in Education | 2 |
| EDUC 208 | ELL Instruction | 3 | TEP 407c | Secondary Science Curriculum/Instruction | 1 |
| SCIE 407 | Teaching Lab Sciences | 1 | TEP 410 | Secondary Pre-student teaching | 0 |
|  |  |  |  |  |  |
| TOTAL |  | 17 |  | TOTAL | 14 |

a Indicates requirement for admission to the TEP.
C Indicates courses to be taken concurrently.

## 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

Communication Major

| 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 $x x x$ | Philosophy/Religion* (1st or 2nd year) | 3 | Varies | $1{ }^{\text {st }}$ Social Science, History* (1st or ${ }^{\text {nd }}$ year) | 3 |
| Varies | Mathematical Science* (1st year) | 3 |  |  |  |
| Varies | 1 st language* | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 12 |
| 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 | $33^{\text {rd }}$ language or Cross Cultural* $2^{\text {nd }}$ or $3^{\text {rd }}$ 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 | $2^{\text {nd }}$ language* ( 1 st or $2^{\text {nd }}$ year) | 3 | ENGL xxx | Literature* (1st or $2^{\text {nd }}$ year) | 3 |
|  |  |  | Varies | $2^{\text {nd }}$ Social Science, History* (1st or ${ }^{\text {nd }}$ year) | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 12 |  | 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* (1st or $2^{\text {nd }}$ year) | 3 | Varies | COMM 391 Practicum or INTE 391 or 394 | 1-3 |
| WELL 1xx | Wellness* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 1 | THEO 2xx | Christian Beliefs* (2 ${ }^{\text {nd }}$ or $3^{\text {rd }}$ year) | 3 |
| Varies | Laboratory Science* (1st year) | 3-4 | Varies | Ethics/Pluralism/World Views** (3rd or $4^{\text {th }}$ year) | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 13-14 |  | TOTAL | 12-15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| COMM xxx | Communication elective | 3 |  | Electives/minor |  |
| 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 |  |  |  |
| IDST xxx | Science, Tech, \& World* (3rd or $4^{\text {th }}$ year) | 3 |  |  |  |
| IDNW xxx | Non-Western Studies* (2nd or 3rd year) | 2-3 |  |  |  |
|  | Electives/minor |  |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 12-15 |  | 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. Courses listed in ( ) on the grid suggest a second or third preferred opportunity to take a course(s) previously listed.
3. 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 |
| $\begin{array}{\|l\|} \text { ART 171/182/ } \\ 211 / 251 / 282 \end{array}$ | Found. of Drawing, Color \& Design, Computer Art \& Imaging, Photography, Form, Space and Media**, or CIS 180 | 3 | $\begin{array}{\|l\|} \hline \text { CIS 180/ } \\ 181 / 191 \end{array}$ | 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* (1st or $2^{\text {nd }}$ year) | 1 |
|  |  |  | Varies | $2^{\text {nd }}$ Language* | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 15 |  | TOTAL | 16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| ART236 or 237 | Graphic Design or Typography | 3 | BIBL 20x | Knowledge of the Bible* (1 ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| COMM 220 | Film and HD Production I (odd falls only) | 3 | CIS 181/191 | Computer Programming I/Web Development | 3 |
| COMM 254 | Screenwriting I | 3 | COMM 105 | Oral Communication* | 3 |
| DIGM 201 | Video and Church Media Seminar | 1 | ENGL xxx | Literature* (1st or ${ }^{\text {nd }}$ 年 year) | 3 |
| RELI/ PHIL | Religion/Philosophy (1st or $2^{\text {nd }}$ year) | 3 | Varies | $33^{\text {rd }}$ Lang or Cross Cultura** (2 ${ }^{\text {nd }}$ or $3^{\text {rd }}$ year) | 3 |
| DIGM 210 or DIGM 215 | Video and Church Media Seminar Game and Art Design Seminar | 1 | Varies |  | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 14 |  | TOTAL | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ART 336, 337 or 431** | Design for New Media OR Digital lllustration OR Motion Design** | 3 | COMM 317 | Advanced Editing and Effects (J Term) | 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 |
| PHIL/RELI $x x x$ | Philosophy/Religion* (1st or 2 ${ }^{\text {nd }} \mathrm{yr}$ ) | 3 | COMM 382 | History and Theory of Digital Media*** (odd years only) | (3) |
| Varies | Laboratory Science* | 3-4 | ENGL xxx | Literature* | 3 |
| Varies | DigMed elective* | 3 | THEO 2xx | Christian Beliefs* (2nd or 3rd year) | 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 DM*** | (3) |
| Varies* | DIGM elective | 3 | COMM 328 | Methods and Issues in Film Studies | 3 |
| Varies | Elective | 3 | INTE 3xx | Internship | 1-3 |
| Varies | Ethics/Pluralism/World Views | 3 | Varies | $2^{\text {nd }}$ Social Science, History* ( $1^{\text {st }}$ or $2^{\text {nd }}$ yr) | 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.
***Odd years only.
The QuEST requirement for Science, Technology, and the World is waived for this major.
${ }^{\wedge}$ Students must take 12 credits to be a full-time student. Dropping below 12 may affect financial aid.

## Film and Media Arts <br> 8 semester plan

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| COMM 105 | Oral Communication* | 3 | Varies | $1{ }^{\text {st }}$ language* | 3 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| Varies | Mathematical Sciences* (1st year) | 3-4 | Varies | Art, Music, Theatre, Dance* | 3 |
| COMM 217 | Introduction to Film | 3 | Varies | Laboratory Science* (1st year) | 3-4 |
| COMM 203 | Basic Video and Editing Techniques | 3 | ENGL xxx | Literature* (1st or ${ }^{\text {nd }}$ nr) | 3 |
| COMM 107 | Introduction to Communication Seminar | 1 |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 15-16 |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| Varies | $2^{\text {nd }}$ language* (1 ${ }^{\text {st }}$ or $2^{\text {nd }} \mathrm{yr}$ ) | 3 | Varies | $3{ }^{\text {rd }}$ lang or Cross Cultural ${ }^{*}$ (2nd or 3rd yr) | 3 |
| Varies | $1{ }^{\text {st }}$ Social Science, History* (1st or 2nd ${ }^{\text {nd }}$ y) | 3 | Varies | $2^{\text {nd }}$ Social Science, History* (1 ${ }^{\text {st }}$ or $2^{\text {nd }} \mathrm{yr}$ ) | 3 |
| Varies | Philosophy/Religion* (1st or 2 ${ }^{\text {nd }} \mathrm{yr}$ ) | 3 | BIBL 20x | Knowledge of the Bible* (1 ${ }^{\text {st }}$ or $2^{\text {nd }} \mathrm{yr}$ ) | 3 |
| COMM 251 or $220$ | Film History I (1st or 2nd yr; offered even fall semesters only) OR Film and HD <br> Production I (prerequisites COMM 217 and COMM 203 Basic) | 3 | COMM 252 or COMM 317 <br> and COMM $320$ | Film History II (1st or $2^{\text {nd }}$ yr; offered odd spring semesters only) OR <br> HD Production II and COMM 317 Adv. Editing \& Effects (J) | 3-6 |
| COMM 254 | Screenwriting I | 3 | COMM xxx | Core interpersonal requirement (menu) or core media requirement (menu) | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 15 |  | TOTAL | 15-18 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| IDST xxx | Science, Tech \& World * (3rd or $4^{\text {th }} \mathrm{yr}$ ) | 3 | THEO 2xx | Christian Beliefs* (2nd or 3rd year) | 3 |
| IDNW xxx | Non-Western Studies** $2^{\text {nd }}$ or $3^{\text {rd }} \mathrm{yr}$ ) | 2-3 | Varies | Ethics/Pluralism/World Views* 3-4 | 3 |
| COMM 251 <br> OR COMM $203$ | Film History I ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ yr; offered even fall semesters only) OR Film and HD <br> Production I (pre or co-requisites COMM 217 and COMM 203 Basic) | 3 | COMM 252 or COMM 317 <br> and COMM $320$ | Film History II (1st or 2nd yr; offered odd spring semesters only) OR <br> HD Production II and <br> COMM 317 Adv. Editing and Effects (J) | 3-6 |
| Varies or COMM 420 | Film Electives OR Junior/Senior Film Practicum | 1-3 | Varies | FAMA Electives | 3 |
| COMM xxx | Core media requirement (menu) or Interpersonal requirement (menu) | 3 | COMM 328 OR Varies | Methods and Issues in Film Studies (3rd or $4^{\text {th }} \mathrm{yr}$ ) OR FAMA electives | 3 |
| COMM 341 | Communication Theory | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 17-18 |  | TOTAL | 15-18 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| WELL 1xx | Wellness | 1 | COMM 328 OR Varies | Methods and Issues in Film Studies (3rd or $4^{\text {th }} \mathrm{yr}$ ) OR FAMA electives | 3 |
| COMM 420 | Junior/Senior Film Practicum** | 1-3 | $\begin{aligned} & \text { INTE } 391 \text { or } \\ & 394 \end{aligned}$ | Internship | 3-6 |
| Varies | FAMA elective | 3 | Varies | 2 Elective/FAMA 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 |

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

## Journalism Major <br> 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 | Fund. of Oral Communication* | 3 | ENGL xxx | Literature* (1 ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
|  |  |  | WELL 1xx | Wellness* (1st or 2nd ${ }^{\text {nd }}$ year) | 1 |
| Varies | $1{ }^{\text {st }}$ Social Science or History* ( $1^{\text {st }}$ or $2^{\text {nd }} \mathrm{yr}$ ) | 3 | Varies | Laboratory Science* | 4 |
| COMM 218 | Mass Media \& Society (if available) | 3 | Varies | $2^{\text {nd }}$ Social Science, History* ( 1st $_{\text {st }} 2^{\text {nd }}$ yr) | 3 |
| COMM 107 | Introduction to Communication Seminar | 1 | COMM 392 | Student Media Lab | 1 |
| COMM 112 | Newswriting | 3 | Varies | Electives/minor | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 18 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| BIBL 20x | Knowledge of the Bible* (1st or ${ }^{\text {nd }}$ year) | 3 | Varies | $1^{\text {st }}$ Language ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| Varies | Math/CIS/STAT course* | 3-4 | COMM 243 | Audio/Visual Newsgathering | 3 |
| $\begin{aligned} & \text { COMM 241, } \\ & 313,392,354 \end{aligned}$ | Interpersonal menu option | 3 | RELI/PHIL | Religion/Philosophy* (1st or $2^{\text {nd }} \mathrm{yr}$ ) | 3 |
| COMM 2xx | Communication Design | 3 | Varies | Elective/Minor | 6 |
| Varies | Journalism elective/minor | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 15-16 |  | TOTAL | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| Varies | $2^{\text {nd }}$ language* (1st or $2^{\text {nd }} \mathrm{yr}$ ) | 3 | COMM 330 | Multimedia Storytelling | 3 |
| THEO 2xx | Christian Beliefs* (2nd or 3rd year) | 3 | COMM xxx | Journalism Electives | 3 |
| Varies | Science, Technology \& the World | 3 | Varies | $3{ }^{\text {rd }}$ Language or Cross Cultural | 3 |
| COMM 392 | Student Media Lab | 1 | COMM 392 | Student Media Lab | 1 |
| Varies | Non-western* | (2-3) | Varies | Electives/Minor | 3-6 |
| COMM 341 | Communication Theory (or Rhetorical Theory in spring) | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 15-16 |  | TOTAL | 13-16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| Varies | Art, Music, Theatre, Dance* | 3 | COMM 493 | Senior Seminar | 3 |
| Varies | Ethics/Pluralism/World View* | 3 | INTE 391 or INTE 394 | Internship | 4 |
| COMM 365 | Media Law and Ethics | 3 | Varies | Electives/Minor | 6-9 |
| COMM 492 or $392$ | Messiah Media Lab Leadership or Messiah Media Lab | 2 | COMM xxx | Journalism Electives | 3 |
| COMM xxx | Journalism Electives | 3 |  |  |  |
| Varies | Electives/Minor | (3) |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 17-18 |  | TOTAL | 16-19 |
|  |  | *QuEST requirement |  |  |  |

## Broadcasting and Media Production 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 |
| COMM 107 | Introduction to Communication Seminar | 1 | IDCR 151 | Created and Called for Community* |  | 3 |
| IDFY 101 | First Year Seminar* | 3 | Varies | Art, Music, Theatre, Dance* |  | 3 |
| PHIL/RELI xxx | Philosophy/Religion* | 3 | Varies | Laboratory Science* |  | 3-4 |
| MATH/CIS/STAT | Mathematical Sciences* | 3 | WELL 1xx | Wellness Activity |  | 1 |
| COMM 218 | Mass Media and Society* | 3 | COMM 247 | Writing for Mass Media |  | 3 |
|  |  |  |  |  |  |  |
|  | TOTAL | 16 |  |  | TOTAL | 16-17 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |  |
| Varies | $2^{\text {nd }}$ language* | 3 | Varies | $33^{\text {rd }}$ language or Cross Cultural* |  | 3 |
| Varies | 1 st Social Science or History* | 3 | ENGL xxx | Literature* |  | 3 |
| RELI/PHIL | Religion/Philosophy* | 3 | Varies | 2nd Social Science, History* |  | 3 |
| WELL 1xx | Wellness* (1st or ${ }^{\text {nd }}$ year) | 1 | THEO 2xx | Christian Beliefs* |  | 3 |
| COMM xxx | Interpersonal menu course selection | 3 | COMM 243 | Audio/Visual Newsgathering |  | 3 |
| COMM 203 | Basic Video \& Editing | 3 | COMM 324 | Television Production |  | 3 |
|  |  |  |  |  |  |  |
| TOTAL |  | 16 |  |  | TOTAL | 8 |
| Junior - Fall |  |  | Junior - Spring |  |  |  |
| COMM 341 | Communication Theory | 3 | Varies | Elective/minor |  | 3 |
| IDNW xxx | Non-Western Studies* | 2-3 | Varies | Elective/minor |  | 3 |
| BIBL 20x | Knowledge of the Bible* | 3 | Varies | Elective/minor |  | 3 |
| COMM 365 | Media Law and Ethics | 3 | Varies | Internship/media lab practicum |  | 3 |
| Varies | Major elective | 3 | Varies | Major elective |  | 3 |
|  |  |  |  |  |  |  |
| TOTAL |  | 14-15 |  |  | TOTAL | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |  |
| IDS xxx | Ethics/Pluralism/World Views* | 3 | COMM 493 | Senior Seminar |  | 3 |
| IDST xxx | Science, Tech, \& World* | 3 | Varies | Elective/minor |  | 3 |
| Varies | Elective/minor | 3 | Varies | Elective/minor |  | 3 |
| Varies | Elective/minor | 3 | Varies | Elective/minor |  | 3 |
| Varies | Major elective | 3 | Varies | Internship/media lab practicum |  | 3 |
|  |  |  |  |  |  |  |
| TOTAL |  | 15 |  |  | TOTAL | 15 |

*QuEST requirement

| Public Relations 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 | MRKT 320 | Marketing Principles | 3 |
| COMM 107 | Intro to Communication Seminar | 1 | COMM 205 | Principles of Public Relations | 3 |
| MATH/CIS/STAT | Mathematical Science* (1st year) | 3 |  |  |  |
| WELL 1xx | Wellness* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 1 | Varies | Art, Music, Theatre or Dance* | 3 |
| Varies | $1{ }^{\text {st }}$ language* | 3 | Varies | $2^{\text {nd }}$ language* ( st $^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| Sophomore-Fall TOTAL 14 |  |  |  | TOTAL | 15 |
|  |  |  | Sophomore - Spring |  |  |
| COMM 351 | Public Relations Writing | 3 | Varies | $33^{\text {rd }}$ language or Cross Cultural* (2nd $^{\text {rd }} 3^{\text {rd }}$ year) | 3 |
| COMM xxx | Public Relations menu option | 3 | ENGL xxx | Literature* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| $\begin{aligned} & \text { COMM 211, } \\ & 218, \text { or } 282 \end{aligned}$ | Communication Core Media Course OR | 3 | $\begin{aligned} & \text { COMM 211, } \\ & 218 \text {, or 282 } \\ & \hline \text { COMM 241, } \\ & 313,342 \text { or } \\ & 354 \\ & \hline \end{aligned}$ | Communication Core Media Course OR | 3 |
| COMM 241, <br> 313, 342 or 354 | Communication Interpersonal Course |  |  | Communication Interpersonal Course |  |
| PHIL/RELI xxx | Philosophy/Religion* (1st or 2nd year) | 3 | RELI/PHIL | Religion/Philosophy* ( st $^{\text {st }}$ o 2nd year) | 3 |
| Varies | 1st Social Science, History* ( ${ }^{\text {st }}$ or $2^{\text {ndt }}$ year) | 3 | Varies | $2^{\text {nd }}$ Social Science, History* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 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* ( ${ }^{\text {st }}$ year) | 3-4 | BIBL 20x | Knowledge of the Bible* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| Varies | Core Writing (COMM 247, 254, ENGL 112, 211 or 212) | 3 | IDNW xxx | Non-Western Studies* (2nd or 3rd year) | 2-3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 14-15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| COMM 493 | Communication Senior Seminar | 3 | THEO 2xx | Christian Beliefs* (2nd or 3rd year) | 3 |
| COMM xxx | Public Relations menu option | 3 | IDS xxx | Ethics/Pluralism/World Views** (3dor or dr $^{\text {th }}$ year) | 3 |
| COMM 391 or INTE 391/394 | Communication Practicum OR Internship | 1-12 |  | Minor credits/internship/practicum | 6-12 |
| IDST xxx | Science, Tech, \& World ${ }^{*}\left(3^{\text {ct }}\right.$ or $4^{\text {th }}$ year) | 3 |  |  |  |
|  | Minor credits |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 13-18 | TOTAL |  | 12-18 |

Note 1: The above is a GUIDELINE ONLY, to be used in helping you map out your coursework. Interest in studying abroad or taking a semester in a specialized program (Contemporary Music Center, Washington DC American Studies Program, etc.) will shift course scheduling accordingly. Planning ahead is key to fitting in all that you desire during your four years at Messiah College. 123 credits are required to graduate.
Note 2: (F) denotes Fall Only course; (S) denotes Spring Only course. Some COMM Core Media or Interpersonal courses are also offered Fall or Spring Only or on an occasional basis. Subject to change.
Note 3: 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. 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 <br> Score | Hrs <br> Credit | MC Courses Credited |
| :--- | :--- | :---: | :--- |
| Computer Science A | $3,4,5$ | 3 | CIS 181 |
| Math: Calculus AB | 3 | 3 | MATH 108 |
|  | 4,5 | 4 | MATH 111 |
| Math: Calculus BC | 3 with AB subscore 3 | 3 | MATH 108 |
|  | 3 with AB subscore 4,5 | 4 | MATH 111 |
|  | 4,5 | 8 | MATH 111, 112 |
| Statistics | $3,4,5$ | 3 | STAT 269 |
| 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) |
|  <br> Magnetism | $3,4,5$ | 4 | PHYS 212 |
| Statistics | $3,4,5$ | 3 | STAT 269 (enroll in STAT 291)* <br> 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.


## 8-semester Plans

## Actuarial Science (B.S.)



* QuEST requirement
** These pairs of courses are offered in alternate years. MATH 350/351 should be taken Fall/Spring whichever year it is offered and STAT 417/345 should be taken Fall/Spring in the alternate year.
NOTE: The major includes 10-11 free elective credits. These should be used to fill the lower credit semesters. Also, the Department suggests that student in this major could consider a minor in a related area to make best use of the elective credits and additional space in this plan.


## Computer and Information Science (B.S.) Business Information Systems 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 190 | Strategic Use of Info Technology | 3 |
| CIS 181 | Computer Programming I | 3 | COMM 105 | Oral Communication* | 3 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| LANG 101 | Language 101* | 3 | LANG 102 | Language 102* | 3 |
| PHIL/RELI $x x x$ | Philosophy and Religion* | 3 | LAB xxx | Lab Science* | 3-4 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 15 |  | TOTAL | 15-16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| BUSA 360 | Operations Management § | 3 | CIS 284 | Computer Programming II§ | 3 |
| ACCT 141 | Financial Accounting | 3 | BUSA 120 | Principles of Management | 3 |
| ECON 120 | Macroeconomics | 3 | MATH 107 | Applied Mathematics for Management § | 3 |
| SOCI/HIST | Social Science / History 1 of 2* | 3 | MRKT 230 | Marketing Principles | 3 |
| LANG 201 | Language 201* | 3 | BIBL 20x | Knowledge of the Bible* | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 15 |  | TOTAL | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| CIS 332 | Database Concepts | 3 | CIS 381 | Information Systems and Managers | 3 |
| STAT 281 | Applied Statistics for Managers | 3 | CIS xxx | CIS Elective (excluding CIS 171) 2 of 3 | 3 |
| CIS xxx | CIS Elective (excluding CIS 171) 1 of 3 | 3 | ENGL xxx | Literature* | 3 |
| SOCI/HIST | Social Science / History 2 of 2* | 3 | THEO 2xx | Christian Beliefs* | 3 |
| ART xxx | Arts* | 3 | WELL xxx | Wellness* | 1 |
| IDNW xxx | Non-Western Studies* | 2-3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 17-18 |  | TOTAL | 13 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| CIS 411 | Systems Analysis and Design Concepts | 3 | IDS xxx | Ethics / Pluralism / World Views* | 3 |
| CIS xxx | CIS elective (excluding CIS 171) 3 of 3 | 3 |  | Free elective 3 of 5 | 3 |
| INTE 394 | Internship | 4 |  | Free elective 4 of 5 | 3 |
|  | Free elective 1 of 5 | 3 |  | Free elective 5 of 5 | 3 |
|  | Free elective 2 of 5 | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16 |  | TOTAL | 12 |
| *QuEST requirement |  |  |  |  |  |
| $\dagger$ Offered alternate years as indicated |  |  |  |  |  |
| § Concentration choice option: other courses in other semesters may fulfill this same requirement |  |  |  |  |  |
| Note: CIS 471 and CIS 472 is replacing CIS 412 and CIS 432. |  |  |  |  |  |

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

8-semester Plan


Note: CIS 471 and CIS 472 is replacing CIS 412 and CIS 432.

## 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* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| LANG 101 | Language 101* | 3 | COMM 105 | Oral Communication* | 3 |
| SOCI/HIST | Social Science / History 1 of 2* | 3 | LANG 102 | Language 102* | 3 |
|  |  |  |  |  |  |
| TOTAL |  |  |  |  | 15 |
|  |  | 15 | TOTAL |  |  |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| CIS 283 | Business Systems Applications † (odd fall) | 3 | CIS 482 | Organization of Programming Languages | 3 |
| CIS 291 | Web Development II: Server Side | 3 | MATH 111 | Calculus I§ | 4 |
| CIS 385 | Data Structures and Algorithms | 3 | MATH 180 | Discrete Math | 3 |
| LANG 201 | Language 201* | 3 | LAB xxx | Lab Science* | 3 |
| ENGL xxx | Literature* | 3 | PHIL/RELI xxx | Philosophy and Religion* | 3 |
| WELL xxx | Wellness | 1 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16 | TOTAL |  | 16 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| CIS 332 | Database Concepts | 3 | CIS 381 | Information Systems and Managers | 3 |
| CIS 384 | Elements of Computer Systems§ | 3 | SOCI/HIST | Social Science / History 2 of 2* | 4 |
| CIS 335 | Software Engineering $\dagger$ (even fall) | 4 | THEO 2xx | Christian Beliefs* | 3 |
| CIS 418 | Artificial Intelligence $\dagger$ § (even fall) | 3 | ART xxx | Arts* | 3 |
|  | Free Elective 1 of 6 | 3 |  |  |  |
| TOTAL |  |  |  |  |  |
|  |  | 16 | TOTAL |  | 13 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| CIS 411 | Systems Analysis and Design Concepts | 3 | IDS xxx | Ethics / Pluralism/World Views* | 3 |
| INTE 394 | Internship | 3 |  | Free elective 4 of 6 | 3 |
| IDNW xxx | Non-Western Studies* | 2-3 |  | Free elective 5 of 6 | 3 |
| BIBL 20x | Knowledge of the Bible* | 3 |  | Free elective 6 of 6 | 3 |
|  | Free elective 2 of 6 | 3 |  |  |  |
|  | Free elective 3 of 6 | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 17-18 |  | TOTAL | 12 |
| *QuEST requirement |  |  |  |  |  |
| $\dagger$ Offered alternate years as indicated |  |  |  |  |  |
| § Concentration choice option: other courses in other semesters may fulfill this same requirement |  |  |  |  |  |
| Note: CIS 471 and CIS 472 is replacing CIS 412 and CIS 432. |  |  |  |  |  |

## Computer and Information Science (B.S.) Web Development Concentration <br> 8-semester Plan



Note: CIS 471 and CIS 472 is replacing CIS 412 and CIS 432.

## Computer Science with Teaching Certification (B.A.) <br> 8-Semester Plan

Superscript indicates course prerequisite
Unless indicated, CIS courses are offered every semester

| Semester 1 <br> CIS 180 Intro to CIS (3) <br> CIS 181 Programming I (3) <br> IDFY First Year Seminar (3) <br> COMM 105 Oral Communication (3) <br> LANG 101 (3) | Semester 2 <br> CIS 284 Programming II (3) ${ }^{\text {Cl18181 prereq }}$ CIS 150 Introduction to Cybersecurity (3) <br> CIS 150 if offered spring semesters CIS 191 Web Development Client Side (3) LANG 102 (3) <br> IDCC Created and Called for Community (3) WELL (1) |
| :---: | :---: |
| Semester 3 <br> CIS 251 Hardware \& Software (3) <br> CIS 251 offered in 'odd falls' only <br> CIS 291 Web Development Server Side (3) ${ }^{\text {ClI }} 191$ prereq <br> CIS 291 offered fall semesters <br> CIS 283 Business Systems Applications (3) <br> CIS 283 offered fall semesters <br> STAT 269 Introductory Statistics (3) <br> Bible (3) | Semester 4 <br> LANG 201 or CC (3) <br> ARTS (3) <br> EDUC 208 Teaching English LL in K-12 Schools (3) <br> EDSP 207 Introduction to Special Education (3) <br> TEP 210 Sophomore Field Experience (0) <br> EDUC 203 Educational Psychology (3) <br> Literature (ENGL 122-176) (3) |
| Semester 5 <br> CIS 332 Database Concepts (3) ${ }^{\text {C15284 }}$ <br> CIS 332 is offered fall semesters <br> CIS 384 Elements of Computer Systems (3) ${ }^{\text {C15284 }}$ <br> CIS 384 offered fall semesters <br> CIS 415 Data Communications and Networking (3) <br> CIS 415 offered even fall semesters <br> PHIL/REL (3) <br> EDUC 346 Socio-Cultural Perspectives on Educ (3) <br> HDFS 311 Adolescent Development (3) | Semester 6 <br> CIS 411 Sys Analysis \& Design Concepts (3) <br> CIS 411 offered spring semesters <br> MATH 180 Discrete Math (3) <br> MATH 180 offered spring semesters <br> MATH 307 (2) <br> MATH 307 offered spring semesters <br> EDSP 307 Inclusion Practices(3) ${ }^{\text {EDSP } 331 \& ~ T E P ~} 310$ concurnt <br> EDUC 331 Instructional Design \& Assessment <br> Middle/Secondary (3) ${ }^{\text {EDSP } 307 ~ \& ~ T E P ~} 310$ concurrent <br> TEP 310 Junior Field Exp. (0) ${ }^{\text {EDSP } 307 \text { \& EDUC } 331 \text { concurnt }}$ Laboratory Science (3-4) <br> 17-18 credits |
| Semester 7 <br> Professional Semester <br> EDUC 420 Professional Issues in Education (2) ${ }^{\text {TEP } 435}$ concurrent <br> TEP 435 Student Teaching Secondary (9) <br> TEP 407 Student Teaching Seminar (1) $)^{\text {TEP }} 435$ concurrent <br> TEP 410 Sec Pre-Student Teach Exp (0) ${ }^{\text {TEP } 435 \text { concurrent }}$ <br> 12 credits | Semester 8 <br> CIS 381 Information Systems and Managers (3) CIS 385 Data Structures and Algorithms (3) ${ }^{\text {CIS284 prereq }}$ <br> Non-Western (2-3) <br> Christian Beliefs (3) <br> History (3) |

## Cybersecurity (B.S.) (Odd year start) <br> 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 | Programming II | 3 |
| CIS 181 | Programming I | 3 | CIS 150 | Introduction to Cybersecurity | 3 |
| IDFY 101 | First Year Seminar | 3 | IDCR 151 | Created and Called for Community | 3 |
| COMM 105 | Oral Communication | 3 | Varies | 2 ${ }^{\text {nd }}$ Language | 3 |
| Varies | $1{ }^{\text {st }}$ Language | 3 | Varies | Philosophy or Religion | 3 |
|  |  |  |  |  |  |
| Total |  | 15 | Total |  | 15 |
|  |  |  |  |  |  |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| CIS 332 | Database Concepts | 3 | CIS 255 | NIX System Administration \& Security | 3 |
| CIS 385 | Data Structures and Algorithms | 3 | MATH 180 | Discrete Math | 3 |
| CIS 265 | Digital Forensics | 3 | ENGL xxx | Literature | 3 |
| STAT 291 | Statistics for Math Sciences | 3 | Varies | 3 rd Language | 3 |
| BIBL 2xx | Knowledge of the Bible | 3 |  |  |  |
|  |  |  |  |  |  |
| Total |  | 16 | Total |  | 12 |
|  |  |  |  |  |  |
| Junior - Fall* |  |  | Junior - Spring* |  |  |
| CIS 335 | Software Engineering | 3 |  |  |  |
| CIS 257 | Information Assurance | 3 | CIS 364 | Ethical Hacking | 3 |
| Varies | Internship or free elective | 2-6 | CIS 462 | Secure Software | 3 |
| Varies | Lab Science | 3 | Varies | Internship or free elective | 2-6 |
| WELL xxx | Wellness | 1 | Varies | Social Science | 3 |
|  |  |  | Varies | History | 3 |
| Total |  | 12-15 | Total |  | 14-18 |
|  |  |  |  |  |  |
| Senior - Fall* |  |  | Senior - Spring* |  |  |
| CIS 411 | System Analysis \& Design Concepts | 3 | CIS 455 | Network Security | 3 |
| CIS 415 | Data Communications and Networking | 3 | Varies | Internship or free elective | 2-6 |
| Varies | Internship or free elective | 2-6 | Varies | Ethics/World Views/Pluralism | 3 |
| Varies | Christian Beliefs | 3 | ART xxx | Arts | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  |  |  |  |  |  |
| Total |  | 14-18 |  | Total | 14-18 |
| *QuEST requirement |  |  |  |  |  |

*4 credits of INTE 391 or INTE 394 can be taken any semester Junior or Senior year **Semesters should not exceed 18 credits

## Cybersecurity (B.S.) (Even Year Start)

## 8 Semester Plan

*QuEST requirement

| Course \# | Course Name | Credits | Course \# | Course Name |  | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |  |
| CIS 180 | Introduction to CIS | 3 | CIS 284 | Programming II |  | 3 |
| CIS 181 | Programming I | 3 | CIS 150 | Introduction to Cybersecurity |  | 3 |
| IDFY 101 | First Year Seminar | 3 | IDCR 151 | Created and Called for Community |  | 3 |
| COMM 105 | Oral Communication | 3 | Varies | 2nd Language |  | 3 |
| Varies | $1{ }^{\text {st }}$ Language | 3 | Varies | Philosophy or Religion |  | 3 |
|  |  |  |  |  |  |  |
| Total |  | 15 | Total |  |  | 15 |
|  |  |  |  |  |  |  |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |  |
| CIS 332 | Database Concepts | 3 | CIS 364 | Ethical Hacking |  | 3 |
| CIS 385 | Data Structures and Algorithms | 3 | MATH 180 | Discrete Math |  | 3 |
| CIS 257 | Information Assurance | 3 | ENGL xxx | Literature |  | 3 |
| STAT 291 | Statistics for Math Sciences | 3 | Varies | $33^{\text {rd }}$ Language |  | 3 |
| BIBL 2xx | Knowledge of the Bible | 3 | Varies | History |  | 3 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total |  | 15 | Total |  |  | 15 |
|  |  |  |  |  |  |  |
| Junior - Fall* |  |  | Junior - Spring* |  |  |  |
| CIS 415 | Data Communications and Networking | 3 | CIS 255 | NIX System Administration \& Security |  | 3 |
| CIS 265 | Digital Forensics | 3 | CIS 455 | Network Security |  | 3 |
| Varies | Internship or free elective | 2-6 | Varies | Internship or free elective |  | 2-6 |
| Varies | Lab Science | 3 | Varies | Social Science |  | 3 |
| WELL xxx | Wellness | 1 | ART $x$ xx | Arts |  | 3 |
|  |  |  |  |  |  |  |
| Total |  | 12-15 | Total |  |  | 14-18 |
|  |  |  |  |  |  |  |
| Senior - Fall* |  |  | Senior - Spring* |  |  |  |
| CIS 411 | System Analysis \& Design Concepts | 3 | CIS 416 | Operating Systems and Architecture |  | 3 |
| CIS 335 | Software Engineering | 3 | CIS 462 | Secure Software |  | 3 |
| Varies | Internship or free elective | 2-6 | Varies | Internship or free elective |  | 2-6 |
| Varies | Christian Beliefs | 3 | Varies | Ethics/World Views/Pluralism |  | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective |  | 3 |
|  |  |  |  |  |  |  |
| Total |  | 14-18 |  |  | Total | 14-18 |

*INTE 391 or INTE 394 can be taken any semester Junior or Senior year
**Semesters should not exceed 18 credits

## 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 | CIS 191 | Web Development I: Client Side |  | 3 |
| CIS 181 | Computer Programming 1 | 3 | CIS 284 | Computer Programming II |  | 3 |
| COMM 203 | Basic Video and Editing Techniques | 3 | IDCR 151 | Created and Called for Community* |  | 3 |
| IDFY 101 | First Year Seminar* | 3 | COMM 105 | Oral Communication* |  | 3 |
| LANG 101 | Language 101* | 3 | LANG 102 | Language 102* |  | 3 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  |  | 18 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |  |
| ART 236 | Graphic Design and Visual Culture § | 3 | ART 171 | Foundations of Drawing § |  | 3 |
| CIS 291 | Web Development II: Server Side | 3 | ARTH 210 | Topics in Non-Western Art § |  | 3 |
| COMM 217 | Intro to Film | 3 | CIS 287 | Intro to Game Design † (even J-Term) |  | 3 |
| SOCI/HIST | Social Science / History 1 of $2^{*}$ | 3 | COMM 382 | History and Theory of Digital Media |  | 3 |
| LANG 201 | Language 201* | 3 | BIBL 20x | Knowledge of the Bible* |  | 3 |
| DIGM 210 or | Video and Church Media Seminar | 1 | WELL xxx | Wellness* |  | 1 |
|  |  |  |  |  |  |  |
| TOTAL 16 |  |  | TOTAL |  |  | 16 |
| Junior - Fall |  |  | Junior - Spring |  |  |  |
| CIS 315 | Intro to Mobile App Design † (odd fall) | 3 | MUCM 353 | Sound Design |  | 3 |
| ART 336 | Design for New Media § | 3 | LAB xxx | Laboratory Science* |  | 3-4 |
| SOCI/HIST | Social Science / History 2 of 2* | 3 | ENGL xxx | Literature* |  | 3 |
| THEO 2xx | Christian Beliefs* | 3 | PHIL/RELI xxx | Philosophy/Religion* |  | 3 |
|  | Free Elective | 3 |  | Free Elective |  | 3 |
| DIGM 210 or | Video and Church Media Seminar | 1 |  |  |  |  |
|  |  |  |  |  |  |  |
| TOTAL |  | 16 |  |  | TOTAL | 15-16 |
| Senior - Fall |  |  | Senior - Spring |  |  |  |
| DIGM 490 | Senior Seminar and Project | 4 | CIS 381 | Information Systems and Managers |  | 3 |
|  | Digital Media Elective from list | 3 |  | Digital Media Elective from list |  | 3 |
| IDS XXX | Ethics/Pluralism/World Views* | 3 |  | Free Elective |  | 3 |
|  | Free Elective | 3 |  | Free Elective |  | 3 |
|  | Free Elective | 3 |  | Free Elective |  | 3 |
|  |  |  |  |  |  |  |
|  | TOTAL | 16 |  |  | TOTAL | 15 |
| *QuEST requirement†Offered alternate years as indicated |  |  |  |  |  |  |

## Mathematics (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 | MATH 112 | Calculus II with lab | 4 |
| MATH 111 | Calculus I with lab* | 4 | MATH 198 | Introduction to Mathematical Proof | 2 |
| MATH 196 | First-Year Math Seminar | 3 | PHYS 211 | General Physics I with lab | 4 |
| IDFY 101 | First-Year Seminar* | 3 | Varies | $2^{\text {nd }}$ semester of Language* | 3 |
| Varies | 1 st semester of Language* | 3 | IDCR 151 | Created and Called for Community* | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 17 |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| MATH 211 | Calculus III with lab | 4 | MATH 261 | Linear Algebra | 3 |
| STAT 291 | Probability and Statistics | 3 | Varies | $3{ }^{\text {rd }}$ semester of Language or Cross Cultural* | 3 |
| ENGL 1xx | Literature meeting QuEST* | 3 | Varies | Philosophy or Religion* | 3 |
| PHYS 212 | General Physics II with lab | 4 | STAT 292 | Inferential Statistics | 3 |
| CIS 181 | Computer Programming I | 3 | ECON 120 | Macroeconomics | 3 |
|  |  |  |  |  |  |
| TOTAL 17 |  |  |  | TOTAL | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| MATH 362 | Algebraic Structures | 3 | MATH 308/382 | Differential Equations/Geometry** | 3 |
| HIST 1xx | US/European History meeting QuEST* | 3 | MATH 412 | Real Analysis ${ }^{0}$ | 3 |
| MATH/STAT $3 x x / 4 x x$ | Upper Level Math/Stat Elective | 3 | THEO 205-238 | Christian Beliefs* | 3 |
| BIBL 201/203/204 | Bible* | 3 | Varies | Art, Music, Dance, Theatre meeting QuEST* | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 12 |  | TOTAL | 12 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| MATH/STAT $3 x x / 4 x x$ | Upper Level Math/Stat Elective | 3 | MATH 308/382 | Differential Equations/Geometry** | 3 |
| IDNW 2xx | Non-western Studies* | 3 | MATH 496 | Mathematical Capstone | 2 |
| Varies | Free Elective | 3 | Varies | Ethics/WV/Pluralism* | 3 |
| Varies | Free Elective | 3 | Varies | Free Elective | 3 |
|  |  |  | WELL 1xx | Wellness* | 1 |
|  |  |  |  |  |  |
|  | TOTAL | 12-13 |  | TOTAL | 12 |

*Fulfills QuEST requirement
**Offered spring of odd-numbered years.
${ }^{\circ}$ May be taken in either the $3^{\text {rd }}$ or $4^{\text {th }}$ year of spring.

# Mathematics with Teaching Certification (B.A.) <br> 8 Semester Plan 


*Fulfills QuEST requirement
**Courses to be taken concurrently.
***Offered spring of odd-numbered years.
${ }^{\wedge}$ This course, or its transfer equivalent, is required for admission into the Teacher Education Program

## Physics with Teaching Certification (B.A.)

8 Semester Plan

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| COMM 105 | Oral Communication* | 3 | MATH 112 | Calculus II | 4 |
| CHEM 105 | General Chemistry I* | 4 | ENGL 122-176 | Literature meeting QuEST* | 3 |
| CIS 181 | Computer Programming I | 3 | PHYS 211 | General Physics I | 4 |
| MATH 111 | Calculus I* | 4 |  |  |  |
| FYS 101 | Varies | 3 |  |  |  |
|  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by 3/31 to cwickey@messiah.edu or B414. |  |  |
|  | TOTAL | 17 |  | TOTAL | 11 |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| MATH 211 | Calculus III | 4 | PHYS 251 | Modern Physics | 4 |
| PHYS 212 | General Physics II | 4 | EDSP 207** | Introduction to Special Education+ | 3 |
| EDUC 346 | Sociocultural Perspectives on Education | 3 | EDUC 203** | Educational Psychology+ | 3 |
| PHIL 101 or 102 | Gen. Ed. Philosophy* | 3 | TEP 210** | Sophomore Field Experience+ | 0 |
|  |  |  | MATH 270 | Advanced Math for the Sciences | 3 |
|  |  |  | ENGR 212 | Programming for Engineers | 2 |
|  |  |  |  |  |  |
|  |  |  | Submit Teacher Education Program app by 3/31 to B414. |  |  |
| TOTAL 14 |  |  | TOTAL 15 |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| STAT 291 or ENGR 242 | Probability and Statistics OR Experimental Methods | 3 | PHYS $402 \dagger$ | Quantum Mechanics | 3 |
| ENGR 367 | Electromagnetics | 3 | PHYS 307 | Secondary Mathematics/Physics Instruction | 2 |
| EDUC 331* | Instructional Design \& Assessment | 3 | ENGR 371 | Thermodynamics | 3 |
| EDSP 307** | Inclusion Practices | 3 | HDFS 311 | Adolescent Development | 3 |
| TEP 310** | Junior Field Experience | 0 | Varies | Electives | 6 |
| EDUC 208 | Teaching English Language Learners | 3 |  |  |  |
| SCIE 307** | Teaching Lab Sciences in Secondary Education | 2 |  |  |  |
|  |  |  | Submit Professional Semester application electronically by 1/15. |  |  |
|  | TOTAL | 17 |  | TOTAL | 17 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| Professional Semester |  |  |  |  |  |
| TEP 410** | Pre-student Teaching | 0 | PHYS 494 | Senior Physics Seminar | 2 |
| TEP 435** | Student Teaching | 9 | CHEM 495 | Capstone; Natural Sciences | 3 |
| EDUC 420** | Professional Issues in Education | 2 | PHYS 328 † | Classical Mechanics | 3 |
| PHYS 407** | Secondary Physics Curriculum/ Instru. | 1 | PHYS $317 \dagger$ | Optics | 3 |
| Varies | Elective | 3 | Varies | Elective | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 15 |  | TOTAL | 14 |

*Fulfills QuEST requirement
**Must be taken concurrently
${ }^{\wedge}$ This course, or its transfer equivalent, is required for admission into the Teacher Education Program
$\dagger$ Offered in alternating years

## Physics (B.S.)

8 Semester Plan

| Course \# | Course Name | Credits | Course \# | Course Name | Credit $\mathbf{s}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| IDFY 101* | First year seminar | 3 | IDCR 151* | Created and Called | 3 |
| Varies* | $1{ }^{\text {st }}$ language requirement | 3 | Varies* | $2^{\text {nd }}$ language requirement | 3 |
| COMM 105* | Foundations of Oral Communication | 3 | Varies* | $1{ }^{\text {st }}$ social science/history | 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* | $3{ }^{\text {rd }}$ language requirement | 3 | ENGL 1 $\mathrm{xx}^{*}$ | Literature meeting QuEST | 3 |
| BIBL 2xx* | Bible | 3 | PHIL 101* | Problems in Philosophy | 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* | $2^{\text {nd }}$ social science/history | 3 | WELL 1 $\mathrm{xx}^{*}$ | Wellness | 1 |
| Varies* | Christian Beliefs | 3 | ENGR 242 | Experimental Methods | 3 |
| PHYS 421† | Particle Physics | 3 | PHYS 402† | Quantum Mechanics | 3 |
| ENGR 367 | Electromagnetics | 3 | ENGR 371 | Thermodynamics | 3 |
| CHEM393 | Research Methods | 3 | PHYS322*** | Independent Research | 3 |
|  |  |  |  |  |  |
| Total |  | 15 | Total 13 |  |  |
|  |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
| Varies* | Ethics, World View or Pluralism | 3 | PHYS 494 | Senior Physics Seminar | 2 |
| PHYS 425 $\dagger$ | Solid State Physics | 3 | PHYS 328† | Classical Mechanics | 3 |
| PHYS 422*** | Senior Research | 3 | PHYS 317† | Optics | 3 |
| Varies* | Interdisciplinary | 3 | CHEM 495 | Capstone Natural Sciences | 3 |
|  |  |  | Varies | Free Elective | 3 |
|  |  |  |  |  |  |
|  | Total | 12 |  |  | 14 |

* Fulfills QuEST requirement
** Requirement can alternatively be met in as single semester by MATH 270
*** Recommended, but not required for degree
$\dagger$ Offered in alternating years


## 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 | 3 | IDCR 151* | Created and Called | 3 |
| Varies* | 1 st language requirement | 3 | Varies* | $2{ }^{\text {nd }}$ language requirement | 3 |
| COMM 105* | Foundations of Oral Communication | 3 | Varies* | $1^{\text {st }}$ social science/history | 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* | $3{ }^{\text {rd }}$ language requirement | 3 | ENGL 1xx* | Literature | 3 |
| BIBL 2xx* | Bible | 3 | PHIL 101* | Problems in Philosophy | 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* | $2^{\text {nd }}$ social science/history | 3 | WELL 1 ${ }^{*}{ }^{*}$ | Wellness | 1 |
| Varies* | Christian Beliefs | 3 | ENGR 242 | Experimental Methods | 3 |
| ENGR 367 | Electromagnetics | 3 | PHYS 402† | Quantum Mechanics | 3 |
| CHEM 393 | Research Methods | 3 | ENGR 371 | Thermodynamics | 3 |
| Varies | Free Elective | 3 | PHYS322*** | Independent Research | 3 |
|  |  |  |  |  |  |
| Total |  | 15 | Total 13 |  |  |
|  |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
| Varies* | Ethics, World View or Pluralism | 3 | PHYS 494 | Senior Physics Seminar | 2 |
| PHYS 422*** | Senior Research | 3 | PHYS 328† | Classical Mechanics | 3 |
| Varies* | Interdisciplinary | 3 | PHYS 317 $\dagger$ | Optics | 3 |
| Varies | Free Elective | 3 | CHEM 495 | Capstone Natural Sciences | 3 |
|  |  |  | Varies | Free Elective | 3 |
|  |  |  |  |  |  |
| Total |  | 12 | Total |  | 14 |

* Fulfills QuEST requirement
** Requirement can alternatively be met in as single semester by MATH 270
*** Recommended, but not required for degree
$\dagger$ Offered in alternating years


## Math and Physics (B.A.) double-major 8 Semester Plan


*QuEST requirement

## III. EDUCATION

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## 8-semester plan Education with Teaching Certification in Grades PreK- 4 (B.S.) Messiah College



TOTAL : 128 credits
${ }^{\text {c }}$ Courses to be taken concurrently/3 clearances required
Chapter 354 Requirements
Math ( 6 credits): CIS 171, EDUC 209
English (6 credits): IDFY 101, ENGL 160
F=Fall, J=J-term, S=Spring

W Course Requirement Met by
$\dagger$ - 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 <br> (select one option/column) |  |
| :--- | :--- |
| Disciplinary Focus | Minor |
| 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*
- XXX Foreign Language*
- PHIL/RELI XXX*
- HIST 141/142 (U.S. History*)
- BIOL 106Life Science
- PHSC 102 Physical Science*
- CIS 171, 181*
- EDUC 205 Social and Political Geography
- HDFS 210 (Child Development)

Special Education $\mathrm{N}-12$ th with Teaching Certification, Pre-K -12 ${ }^{\text {th }}$ (B.S.)


## TOTAL : 129 credits

*Courses to be taken concurrently/3 clearances required Chapter 354 Requirements
Math (6 credits): CIS 171, 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)
$\dagger$ - indicates requirement for admission to the TEP
Study Abroad possibility: fall semester soph yr

## Study abroad options:

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
- XXX Foreign language
- PHIL/REL XXX
- HIST 141/142 (U.S. History)
- Life Science (BIO 106)
- Physical Science (PHSC 102)
- CIS 171, 181

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

| Minor | Recommended if you are interested in: |
| :--- | :--- |
| TESOL (Minor-18 <br> credits, Certificate-15 <br> credits) | Adding certification to teach English language learners. This is a high <br> need area in teaching whether you teach special education serving <br> students who are ELs or you teach ELs who are at risk of being <br> identified with a disability. |
| Speech and Language <br> Pathology (20 <br> credits) | Specializing in autism or serious communication disorders, if you want <br> to teach in a communication intensive classroom or a multiple <br> disabilities classroom, or if you are interested in pursuing a masters <br> degree later in Speech and Language Pathology. |
| Disability and Family <br> Wellness (18 credits) | Specializing in family support, community outreach, or disability- <br> related community supports. Requires careful planning as only 2 <br> courses can overlap between those already required for your major. |
| HDFS (18 credits) | Specializing in functional curriculum for learners with more severe or <br> profound disabilities, such as life skills or multiple disabilities <br> classrooms. Specializing in development and the family. |
| English (18 credits) | Language arts interventions at middle or high school settings. Please <br> 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 <br> 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 (PreK-4 and Special Education N-12) (B.S.) 

8-semester plan<br>Messiah College

This chart represents a suggested sequence of courses

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| IDFY 101 $\dagger$ | First Year Seminar** | 3 | IDCR 151 | Created and Called for Community***) | 3 |
| VARIES | 1st Language* | 3 | VARIES | 2nd Language* | 3 |
| PHSC $102 \mathrm{~F}, \mathrm{~S}$ | Physical Science* | 3 | BIOL 106 | Life Science | 3 |
| COMM 105 $\dagger$ | Oral Communication* | 3 | CIS 171-181† F,J,S | Computer Science* | 3 |
| HIST 141/142 | U.S. History* | 3 | ENGL160 $\dagger$ F, | World Literature* | 3 |
|  |  |  | HDFS $210 \mathrm{~F}, \mathrm{~J}, \mathrm{~S}$ | Child Development (field experience) | 3 |
|  | TOTAL | 15 | TOTAL |  | 18 |
|  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by $3 / 31$ to B 414 . |  |  |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| EDUC $209 \mathrm{~F}, \mathrm{~S}$ | Principals \& Structures of Math | 3 | BIBL 20X | Encountering the Bible* | 3 |
| HDFS 396 F,S | Infants, Toddlers, Families | 3 | EDUC 226 F,J,S | Children's Literature | 3 |
| Varies | Foreign Language*/Cross Cultural | 3 | EDUC 205 F,S | Cultural \& Political Geo | 3 |
| EDSP 207cF,S | Introduction to Special Education | 3 | PHIL/REL | Philosophy/Religion* | 3 |
| TEP $210{ }^{\circ} \mathrm{F}$, S | Sophomore Field Experience | 0 | HDFS 311 | Adolescent Development | 3 |
| EDUC $346 \mathrm{~F}, \mathrm{~S}$ | Sociocultural Perspectives | 3 | EDUC 208 | Teaching English Language Learners | 3 |
| EDUC 203 ${ }^{\circ}$ | 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% | Literacy CC \& - - I | 3 | EDUC 302 ${ }^{\text {S }}$ | Literacy CC \& - - II | 3 |
| EDUC 303 ${ }^{\text {F }}$ | Math CC \& - - | 3 | EDUC 304' S | Math CC \& - II | 2 |
| EDUC 330'F | Instruct. Design \| | 3 | EDUC 342 ${ }^{\text {c }}$ | Social Studies CC \& 1 | 3 |
|  |  |  | EDUC 347c S | Science CC \& 1 | 3 |
| TEP 312 ${ }^{\circ} \mathrm{F}$ | Field Experience II in PreK-2 | 0 | EDSP 397 | High Incidence Instructional Strategies | 3 |
| IDET/WV/PL | Ethics/World Views/Pluralism | 3 | TEP 314c S | Field Experience IIII in gr 2-4 | 0 |
| Varies | Art/Music/Theatre/Dance* meeting QuEST | 3 | WELL 1xx | Wellness* | 1 |
|  |  |  | THEO 20x, 21x, 22x | Christian Beliefs* | 3 |
| TOTAL 18 |  |  |  |  |  |
| Submit Professional Semester application by 11/1 to B414. |  |  | TOTAL |  | 18 |
| Senior - Fall |  |  | Senior - Spring |  |  |
|  | Professional Semester |  | EDSP $409{ }^{\circ}$ | Psychological Testing | 3 |
| EDUC 420 ${ }^{\circ} \mathrm{F}$ | Professional Issues in Ed | 2 | EDUC 414c S | Developmental Programming: Early Childhood CC\&I | 3 |
| TEP 432 ${ }^{\text {c }} \mathrm{F}$ | Student Teaching: Special Education | 9 | EDUC 415 ${ }^{\circ}$ | Evidence Based ECE Practices | 3 |
| TEP 407c F | Student Teaching Seminar | 1 | TEP 420 ${ }^{\text {c }}$ S | Special Education Internship | 0 |
|  |  |  | EDSP 398' F, S | Low Incidence Inst Strategies | 3 |
| Dual majors must student teach in the fall |  |  | EDSP 399c F,S | Positive Behavior Support | 3 |
|  |  |  | EDME 537 | Transition and Secondary Special Ed | 3 |
| TOTAL |  | 12 | TOTAL |  | 18 |

TOTAL : 129 credits
Chapter 354 Requirements
Math ( 6 credits): CIS 171, EDUC 209
English ( 6 credits): IDFY 101, ENGL 160
*QuEST requirement
${ }^{\text {c Courses }}$ to be taken concurrently/3 clearances required
$\dagger$ - indicates requirement for admission to the TEP
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 | Foreign Language* | PHIL/REL XXX | HIST 141/142 (U.S. History*) |
| :--- | :--- | :--- | :--- |
| BIOL 106 Life Science | PHYS 102 Physical Science* | CIS 171,181 | EDUC 205 Social \& Political Geo |
| HDFS 310 Child Development |  |  |  |

HDFS 310 Child Development

Education with Teaching Certification in Grades 4-8 (B.S.) General Messiah College
8 -semester plan


This guide is meant to give Advisors direction when students are unsure which concentration(s) they would like to pursue.
It is in each student's best interest to switch to the appropriate specific Middle Level Guide ASAP in their college career.

F=Fall, J=J-term, S=Spring; compiled 4/13/10
${ }^{\text {c }}$ Courses to be taken concurrently $/ 3$ clearances required
$\dagger$ indicates requirement for admission to the TEP
This chart represents a suggested sequence of courses.

Chapter 354 Requirements:
Math (6 credits): MATH/ED 111, CIS 171
English (6 credits): IDFY 101, ENGL 160 (W)
*Course meets QuEST requirements

Study Abroad possibilities: fall/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. This list varies depending on your certification concentration. The following courses may be fulfilled with study abroad courses, depending on the area of concentration.

- COMM 105
- BIOL 106 (Life Science)
- CIS 171
- PHSC 102 (Physical Science)
- Math 101
- ENGL xxx
- EDUC 226 (Children’s Literature)
- Foreign Language xxx
- PHIL/REL xxx
- ARTS xxx


# Education with Teaching Certification in Grades 4-8 (B.S.) English Concentration 

Messiah College
8 -semester plan

$\dagger$ 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 fuffilled with study abroad courses:

- COMM 105
- CIS 171
- Math 101
- Foreign Language* XXX
- BIOL 106 Life Science
- PHSC 102 Physical Science*
- ENGL XXX
- EDUC 226 Children's Literature
- PHIL/REL XXX
- HIST 141/142 U.S. History*
- ARTS XXX


# Education with Teaching Certification in Grades 4-8 (B.S.) Math and English Concentration 

Messiah College 8-semester plan

*QuEST requirement
${ }^{\text {c }}$ Courses to be taken concurrently/3 clearances required
$\dagger$ Indicates a requirement for admission to the TEP.
\#\# Math electives include: STAT 291 Statistics for Math I (3) PHYS 211 General Physics I (4)
CIS 181 Computer Programming I PHYS 201 Introductory Physics I (4)
MATH 112 Calculus II (4) PHYS 202 Introductory Physics II (4)
F=Fall, J=J-term, S=Spring
Chapter 354 Requirements:
Math (6 credits): EDUC 209, CIS 171
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, 181 Computer Science*
- QuEST Arts requirement
- BIOL 106 Life Science
- PHIL/REL XXX
- PHSC 102 Physical Science*
- Foreign Language* XXX


# Education with Teaching Certification in Grades 4-8 (B.S.) Math and Social Studies Concentration <br> Messiah College 8-semester plan 

|  | C1 = Math core | sh | C3 = Social Studies core |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Course \# | Course name | Credits |  |  | Credits |
| First Year - Fall |  |  | First Year - Spring |  |  |
| IDFY 101 $\dagger$ | First Year Seminar* (C2)* | 3 | IDCR 151 | Created and Called for Community** | 3 |
| Varies | $1{ }^{\text {st L Language* }}$ | 3 | Varies | $2{ }^{\text {nd }}$ Language* | 3 |
| BIOL $106 \mathrm{~F}, \mathrm{~S}$ | Life Science (C4) | 3 | PHSC 102 F, S | Physical Science* (C4) | 3 |
| COMM 105t | Oral Communication** | 3 | CIS 171-181†F,J, | Computer Science* (C1) | 3 |
| MATH $111 \dagger$ | Calculus I (C1) | 4 | ENGL 122-176 | Literature Elective | 3 |
|  |  |  | WELL 1xx | Wellness* | 1 |
|  | TOTAL | 16 | TOTAL |  | 16 |
|  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by $3 / 31$ to 8414 . |  |  |
| Sophomore-Fall |  |  | Sophomore-Spring |  |  |
| EDUC $346 \mathrm{~F}, \mathrm{~S}$ | Sociocultural Perspectives | 3 | EDSP 2070 F, ${ }^{\text {S }}$ | Intro to Special Education | 3 |
| Varies | $3{ }^{\text {dra }}$ Language* | 3 | EDUC 2030 F, ${ }^{\text {S }}$ | Educational Psychology | 3 |
| EDUC $209 \mathrm{~F}, \mathrm{~S}$ | Principals \& Structures of Math(C1) | 3 | TEP 210' F, S | Sophomore Field Experience | 0 |
| HIST 141/142 | U.S. History* (C3) | 3 | ESS 201 | Earth and Space (C4) | 3 |
| HIST 3XX or HIST 171 or HIST 172 | History (Non-western QuEST) | 3 | BIBL 20X | Encountering the Bible** | 3 |
| EDUC 208 | Teaching English Language Learners | 3 | HIST 141 | U.S. History* | 3 |
|  |  |  | EDUC $205 \mathrm{~F}, \mathrm{~S}$ | Cultural \& Political Geography (C3) | 3 |
|  | TOTAL | 18 | TOTAL |  | 18 |
|  |  |  | Submit Teacher Education Program app by 3/31 to B414. |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| EDUC $331{ }^{\circ} \mathrm{F}$ | Inst. Design \& Assess Mid \& Sec. | 3 | EDUC 302'S | Literacy CC\& 1-II (C2) | 3 |
| EDSP $307{ }^{\circ} \mathrm{F}$ | Inclusion Practices | 3 | EDUC $304{ }^{\circ} \mathrm{S}$ | Math CC \& 1-II (C1) | 3 |
| EDUC 305 ${ }^{\circ} \mathrm{F}$ | Middle Level Methods | 3 | EDUC 342 ${ }^{\circ}$ | Social Studies CC \& I (C3) | 3 |
| TEP 316. F | Field Experience II in Grades 6-8 | 0 | MATH 307c | Secondary Mathematics Instruction | 2 |
| HDFS 311 F, S | Adolescent Development | 3 | TEP 3180 S | Field Experience IIII in Grades 4-5 | 0 |
| HIST 258 | Historical Methods | 3 | EDUC $347{ }^{\circ} \mathrm{S}$ | Science CC I (C4) | 3 |
|  |  |  | STAT 269 | Introduction to Statistics | 3 |
| TOTAL |  | 15 |  | TOTAL | 17 |
| Submit Professional Semester application by 11/1 to B414. |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
|  | Professional Semester |  | EDUC 346 J | Socio-Cult. Perspective on Educ (C3) | 3 |
| EDUC 420'F,S | Professional lssues in Education | 2 | THEO xxx | Christian Beliefs* | 3 |
| TEP 4330 F, ${ }^{\text {S }}$ | Student Teaching: Grades 4-8 |  | Varies | ArrtMusic/Theatre meeting QuEST Arts* | 3 |
| TEP 407c F, ${ }^{\text {c }}$ | Student Teaching Seminar | 1 | MATH elective | See list below\# | 3-4 |
|  |  |  | EDUC 226 F,J | Children's Literature (C2) | 3 |
|  | TOTAL | 12 |  | TOTAL | 15 |

F=Fall, J=J-term, S=Spring; compiled 3/8/11
${ }^{\text {c Courses to be taken concurrently/3 clearances required (w) Writing }}$ enriched course
$\dagger$ Indicates a requirement for admission to the TEP.

Chapter 354 Requirements:
Math (6 credits): EDUC 209, CIS 171
English (6 credits): IDFY 101, ENGL 160 (W)
*QuEST requirement
\#\# 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:

- COMM 105 Oral Communication*
- BIOL 106 Life Science
- PHSC 102 Physical Science*
- CIS 171, 181 Computer Science*
- PHIL/REL XXX
- Foreign Language* $X X X$
- ARTS XXX


# Education with Teaching Certification in Grades 4-8 (B.S.) Math Concentration Messiah College 8-semester plan 

| C1 = Math core |  | C2 = English core | C3 = Social Studies core C4 = Science core |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Course \# | Course name | Credits | Course \# | Course name | Credits |
| First Year - Fall |  |  | First Year - Spring |  |  |
| IDFY 101 $\dagger$ | First Year Seminar* (C2)* | 3 | IDCR 151 | Created and Called for Community*(W) | 3 |
| Varies | 1 st Language* | 3 | Varies | $2^{\text {nd }}$ Language* | 3 |
| BIOL 106 F,S | Life Science (C4) | 3 | MATH 112\# | Calculus II | 4 |
| COMM 105 $\dagger$ | Oral Communication** | 3 | CIS 171-181†F,J,S | Computer Science* (C1) | 3 |
| MATH 111 $\dagger$ | Calculus I (C1) | 4 | ENGL 160†F,S | World Literature* | 3 |
|  |  |  | WELL 1xx | Wellness* | 1 |
|  | TOTAL |  | 16 |  | TOTAL | 17 |
|  |  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by $3 / 31$ to B 414 . |  |  |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| EDUC $346 \mathrm{~F}, \mathrm{~S}$ | Sociocultural Perspectives | 3 | EDSP 207c F, S | Intro to Special Education | 3 |
| Varies | $3{ }^{\text {rd }}$ Language* | 3 | EDUC 203'F,S | Educational Psychology | 3 |
| EDUC $209 \mathrm{~F}, \mathrm{~S}$ | Principals \& Structures of Math(C1) | 3 | TEP 210c F, S | Sophomore Field Experience | 0 |
| PHSC $102 \mathrm{~F}, \mathrm{~S}$ | Physical Science* (C4) | 3 | ESS 201 | Earth and Space (C4) | 3 |
| HIST 141/142 | U.S History (C3)* | 3 | BIBL 20X | Encountering the Bible* | 3 |
| EDUC $205 \mathrm{~F}, \mathrm{~S}$ | Cultural \& Political Geography (C3) | 3 | EDUC 208 | Teaching English Language Learners | 3 |
| TOTAL |  | 18 |  | TOTAL | 15 |
|  |  |  | Submit Teacher Education Program app by 3/31 to B414. |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| EDUC 331c F | Inst. Design \& Assess Mid \& Sec. | 3 | EDUC 302c S | Literacy CC\& I-II (C2) | 3 |
| EDSP 307c F | Inclusion Practices | 3 | EDUC 304c S | Math CC \& I-III (C1) | 3 |
| EDUC 305 ${ }^{\circ} \mathrm{F}$ | Middle Level Methods | 3 | EDUC 3420 S | Social Studies CC \& I (C3) | 3 |
| TEP 316 ${ }^{\circ} \mathrm{F}$ | Field Experience II in Grades 6-8 | 0 | EDUC 226 F,J | Children's Literature (C2) | 3 |
| HDFS $311 \mathrm{~F}, \mathrm{~S}$ | Adolescent Development | 3 | TEP 318~S | Field Experience III in Grades 4-5 | 0 |
| MATH/PHYS\# | Math Elective 1 (see chart) | 4 | EDUC 347c S | Science CC I (C4) | 3 |
|  |  |  | MATH 307\# | Secondary Mathematics Instruction | 2 |
| TOTAL |  | 16 |  | TOTAL | 17 |
| Submit Professional Semester application by 11/1 to B414. |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
|  | Professional Semester |  | EDUC 346 J | Socio-Cult. Perspective on Educ (C3) | 3 |
| EDUC 420'F,S | Professional Issues in Education | 2 | THEO XXX | Christian Beliefs* | 3 |
| TEP 433c F, S | Student Teaching: Grades 4-8 | 9 | Varies | Art/Music/Theatre meeting QuEST Arts* | 3 |
| TEP 407c F, S | Student Teaching Seminar | 1 | STAT 269/291\# | Statistics | 3 |
| TOTAL |  |  | PHYS XXX\# | Math Elective 2 (see chart) | 4 |
|  |  | 12 |  | TOTAL | 16 |

\# 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, J=J-term, S=Spring; compiled 3/8/11
${ }^{\text {c Courses to be taken concurrently/3 clearances required }}$
(w) Writing enriched course
$\dagger$ Indicates a requirement for admission to the TEP.
Chapter 354 Requirements:
Math (6 credits): EDUC 209, CIS 171
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 Oral Communication*
BIOL 106 Life Science
- HIST 141 US History
- CIS 171
- PHSC 102 Physical Science*
- ARTS XXX
- EDUC 226 Children's Literature
- Language course


# Education with Teaching Certification in Grades 4-8 (B.S.) Science and English Concentration 

## Messiah College 8-semester plan

|  | $\mathrm{C} 1=$ Math core $\quad \mathrm{C} 2=$ English core | nglish cor | C3 = Social Studies core C4 = Science core |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Course \# | Course name | Credits | Course \# | Course name | Credits |
| First Year - Fall |  |  | First Year - Spring |  |  |
| IDFY $101 \dagger$ | First Year Seminar (C2)* | 3 | IDCR 151 | Created and Called for Community* (W) | 3 |
| Varies | $1{ }^{\text {st }}$ Language* | 3 | Varies | $2{ }^{\text {nd }}$ Language* | 3 |
| BIOL 106 F, S | Life Science (C4) | 3 | PHSC 102 F,S | Physical Science* (C4) | 3 |
| COMM 105t | Oral Communication* | 3 | CIS 171-181tF, J, | Computer Science* (C1) | 3 |
| $\begin{aligned} & \text { MATH 101/102/ } \\ & 108 / 111 \dagger \end{aligned}$ | Math (C1) | 3-4 | ENGL 160t F, S | World Literature* | 3 |
|  |  |  | TOTAL |  |  |
|  | TOTAL | 15-16 |  |  | 15 |
|  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by $3 / 31$ to B414. |  |  |
| Sophomore-Fall |  |  | Sophomore - Spring |  |  |
| Varies | $3{ }^{\text {rd L Language* }}$ | 3 | EDSP 2070 F,S | Intro to Special Education | 3 |
| EDUC $209 \mathrm{~F}, \mathrm{~S}$ | Principals \& Structures of Math(C1) | 3 | EDUC 203' F, | Educational Psychology | 3 |
| See below | Plant/Environmental Science elective | 3 | TEP 210 ${ }^{\circ} \mathrm{F}, \mathrm{S}$ | Sophomore Field Experience | 0 |
| ENGL 310-360 | Literature Elective | 3 | ESS 201 | Earth and Space (C4) | 3 |
| $\begin{aligned} & \text { BIOL } 117 \text { or } \\ & \text { PHYS } 201 \end{aligned}$ | Field Biology OR Introductory Physics | 3-4 | BIBL 20x | Encountering the Bible* | 3 |
|  |  |  | EDUC 208 | Teaching English Language Learners | 3 |
|  |  |  | EDUC $205 \mathrm{~F}, \mathrm{~S}$ | Cultural \& Political Geography (C3) | 3 |
| TOTAL |  | 15-16 |  | TOTAL | 18 |
|  |  |  | Submit Teacher Education Program app by $3 / 31$ to B414. |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| EDUC 331\% ${ }^{\circ} \mathrm{F}$ | Inst. Design \& Assess Mid \& Sec. | 3 | EDUC 302* | Literacy CC\& 1-11 (C2) | 3 |
| EDSP 307\% F | Inclusion Practices | 3 | EDUC 304* S | Math CC \& 1-II (C1) | 3 |
| $\begin{aligned} & \text { CHEM } \\ & \text { 102/103/105 } \end{aligned}$ | Chemistry | 3 | EDUC 3420 S | Social Studies CC \& 1 (C3) | 3 |
| EDUC 305' F | Middle Level Methods | 3 | EDUC 226 F,J | Children's Literature (C2) | 3 |
| TEP 316 ${ }^{\circ} \mathrm{F}$ | Field Experience Il in gr. 6-8 | 0 | TEP 3180 ${ }^{\text {S }}$ | Field Experience IIl in gr. 4-5 | 0 |
| HDFS 311 F , S | Adolescent Development | 3 | EDUC 3470 S | Science CC I (C4) | 3 |
| ENGL 307 | Teaching English in Secondary Schools | 3 | EDUC 346 | Sociocultural Perspectives | 3 |
| TOTAL |  | 18 |  | TOTAL | 18 |
| Submit Professional Semester application by 11/1 to B414. |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
|  | Professional Semester |  | EDUC 346 J | Socio-Cult. Perspective on Educ (C3) | 3 |
| EDUC 420 F, ${ }^{\circ}$ | Professional Issues in Education | 2 | THEO XXX | Christian Beliefs* | 3 |
| TEP 433 ${ }^{\text {c F }}$, S | Student Teaching: Grades 4-8 | 9 | Varies | Art/Music/Theatre meeting QuEST Arts* | 3 |
| TEP 407\% F, S | Student Teaching Seminar | 1 | PHILREL | Philosophy/Religion | 3 |
|  |  |  | HIST 141/142 | U.S. History* (C3) | 3 |
| TOTAL |  | 12 |  | TOTAL | 15 |

F=Fall, J=J-term, S=Spring; compiled 3/8/11
${ }^{\text {c }}$ Courses to be taken concurrently/3 clearances required
(w) Writing enriched course
$\dagger$ Indicates a requirement for admission to the TEP.
\#\#Environmenta/Plant Science electives:
BIOL 140 Ecology and Sustainability (3)
BIOL 162 Plant Form and Function (3)

Chapter 354 Requirements:
Math (6 credits): EDUC 209, CIS 171
English ( 6 credits): IDFY 101, ENGL 160 (W)

BIOL 216 Environmental Issues and Sustainable Solutions (3) BIOL 315 Environmental Ethics (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 Science, PHSC 102 Physical Science*, CIS 171, 181 Computer Science*, PHIL/REL course, Foreign Language* course, Arts course meeting QuEST

# Education with Teaching Certification in Grades 4-8 (B.S.) Science and Math 

 Messiah College 8-semester plan| C1 = Math core $\quad$ C2 $=$ English core |  |  | C3 $=$ Social Studies core  <br> Course \# Course name |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Course \# | Course name | Credits |  |  | Credits |
| First Year - Fall |  |  | First Year - Spring |  |  |
| IDFY 101† | First Year Seminar (C2)* | 3 | IDCR 151 | Created and Called for Community*(W) | 3 |
| Varies | 1 st Language* | 3 | Varies | $22^{\text {nd }}$ Language* | 3 |
| BIOL 106F, S | Life Science (C4) | 3 | PHSC 102 F , S | Physical Science* (C4) | 3 |
| COMM $105 \dagger$ | Oral Communication* | 3 | CIS 171-181+F, J, S | Computer Science* (C1) | 3 |
| MATH $111 \dagger$ | Calculus I (C1) | 4 | ENGL 160tF, ${ }^{\text {S }}$ | World Literature* | 3 |
|  | TOTAL | 16 | TOTAL |  | 15 |
|  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by $3 / 31$ to B414. |  |  |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| EDUC 346F, 5 | Sociocultural Perspectives | 3 | EDSP 2070 F , S Intro to Special Education |  | 3 |
| Varies | $3^{\text {rd }}$ Language* | 3 | EDUC 203' F,S Educational Psychology |  | 3 |
| EDUC 209F, S | Principals \& Structures of Math C1 | 3 | TEP 210'F,S Sophomore Field Experie |  | 0 |
| BIOL 117 | Field Biology | 3 | ESS 201 Earth and Space (C4) |  | 3 |
| Varies | CHEM 102-105 Chemistry OR or PHYS 201 Introductory Physics | 3-4 | BIBL 20x Encountering the Bible* |  | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ |
|  |  |  | EDUC 205 F,S Cultural \& Political Geography (C3) |  | 3 |
| TOTAL 15-16 |  |  | TOTAL |  | 18 |
|  |  |  | Submit Teacher Education Program app by 3/31 to B414. |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| EDUC 3310 F | Inst. Design \& Assess Mid \& Sec. | 3 | EDUC 3020 ${ }^{\circ}$ | Literacy CC\& 1-11 (C2) | 3 |
| EDSP 3070 F | Inclusion Practices | 3 | EDUC 304* | Math CC \& I-II (C1) | 3 |
| STAT 269/291 | Statistics | 3 | EDUC $342^{\circ} \mathrm{S}$ | Social Studies CC \& I (C3) | 3 |
| EDUC 305' F | Middle Level Methods | 3 | MATH 307\% | Secondary Mathematic Instruction | 2 |
| TEP 316 ${ }^{\circ} \mathrm{F}$ | Field Experience II in Grades 6-8 | 0 | TEP 3180 S | Field Experience III in Grades 4-5 | 0 |
| HDFS 311 F , S | Adolescent Development | 3 | EDUC 3470 | Science CC I (C4) | 3 |
| See below | Plant/Environmental Science elective | 3 | EDUC 226 F,J | Children's Literature (C2) | 2 |
|  | TOTAL | 18 | TOTAL |  | 16 |
| Professional Semester application due by 11/1 to B414. |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
| Professional Semester |  |  | EDUC 346 J So | cio-Cult. Perspective on Educ (C3) | 3 |
| EDUC $420{ }^{\circ} \mathrm{F}, \mathrm{S}$ | Professional Issues in Education | 2 | THEO XXX Ch | istian Beliefs* | 3 |
| TEP 4330 F, S | Student Teaching: Grades 4-8 |  | Varies Ar | Music/Theatre meeting QuEST Arts* | - 3 |
| TEP 407 ${ }^{\circ} \mathrm{F}$, S | Student Teaching Seminar | 1 | Varies N | th Elective (see below) | 3-4 |
|  |  |  | HIST 141/142 U.S. History (C3) |  | 3 |
| TOTAL |  | 12 | TOTAL |  | 15-16 |
| *QuEST requirement |  |  |  |  |  |
| F=Fall, J=J-term, S=Spring; compiled 3/8/11 <br> ${ }^{\text {c }}$ Courses to be taken concurrently/3 clearances required <br> (w) Writing enriched course <br> $\dagger$ Indicates a requirement for admission to the TEP. |  |  | \# Math Electives: CIS 182 (181 prereq), MATH 112 (111 prereq), MATH 261 (112 prereq), STAT 292 (291 prereq) Chapter 354 Requirements: <br> Math ( 6 credits): EDUC 209, CIS 171 <br> English ( 6 credits): IDFY 101, ENGL 160 (W) |  |  |

\#\#Environmental/Plant Science electives:
BIOL 140 Ecology and Sustainability (3)
BIOL 162 Plant Form and Function (3)

BIOL 216 Environmental Issues and Sustainable Solutions (3) BIOL 315 Environmental Ethics (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:

| - STAT 269 | -CHEM 102/105 | - Language course |
| :--- | :--- | :--- |
| -CIS 171 | - BIBLE 2XX | - ARTS XXX |
| - BIOL 106 | -HIST 141/142 | -EDC 226 |
| - PHSC 102 | -COMM 105 |  |

## Education with Teaching Certification in Grades 4-8 (B.S.) Science \& Social Studies Messiah College <br> 8-semester plan

| C1 = Math core $\quad$ C2 $=$ English core |  |  | C3 = Social Studies core $\mathrm{C} 4=$ Science core |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Course \# | Course name | Credits | Course \# | Course name | Credits |
| First Year - Fall |  |  | First Year - Spring |  |  |
| IDFY $101 \dagger$ | First Year Seminar (C2)* | 3 | IDCR 151 | Created and Called for Community ${ }^{*}$ (W) | 3 |
| Varies | 1 st Language* | 3 | Varies | $2{ }^{\text {nd }}$ Language* | 3 |
| BIOL 106 F , S | Life Science (C4) | 3 | PHSC 102 F, S | Physical Science* (C4) | 3 |
| COMM 105 $\dagger$ | Oral Communication** | 3 | CIS 171-181+F, J, | Computer Science* (C1) | 3 |
| MATH 101/102/108/1111† | Math (C1) | 3-4 | ENGL 122-176† | Literature Elective | 3 |
|  | TOTAL | 15-16 | TOTAL |  | 15 |
|  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by $3 / 31$ to B414. |  |  |
| Sophomore-Fall |  |  | Sophomore - Spring |  |  |
| EDUC 208 | Teaching English Language Learners | 3 | EDSP 2070 F, S | Intro to Special Education | 3 |
| Varies | $3^{\text {rd L Language* }}$ | 3 | EDUC 2036 F, ${ }^{\text {S }}$ | Educational Psychology | 3 |
| EDUC 209F, S | Principals \& Structures of Math(C1) | 3 | TEP 210 ${ }^{\text {c F , }}$ S | Sophomore Field Experience | 0 |
| HIST 141/142 | U.S. History* (C3) | 3 | EDUC 346F, S | Sociocultural Perspectives | 3 |
| $\text { BIOL } 117$ $\text { PHYS } 201$ | Field Biology OR Introductory Physics I | 3-4 | CHEM 102-105 EDUC 205 F, S | Chemistry <br> Cultural \& Political Geography (C3) | $\begin{gathered} 3-4 \\ 3 \end{gathered}$ |
| TOTAL |  | 15-16 | TOTAL |  | 15-16 |
|  |  |  | Submit Teacher Education Program app by 3/31 to B414. |  |  |
| Junior - Fall |  |  | Junior-Spring |  |  |
| EDUC $331{ }^{\circ} \mathrm{F}$ | Inst. Design \& Assess Mid \& Sec. | 3 | EDUC 302'S | Literacy CC\&1-II (C2) | 3 |
| EDSP 307c F | Inclusion Practices | 3 | EDUC 304* | Math CC \& 1-II (C1) | 3 |
| BIOL xxx\#\# | Plant/Environmental Science elective | 3 | EDUC 3420 ${ }^{\text {S }}$ | Social Studies CC \& I (C3) | 3 |
| EDUC 305 ${ }^{\circ} \mathrm{F}$ | Middle Level Methods | 3 | EDUC 226 F, J | Children's Literature (C2) | 3 |
| TEP 316.F | Field Experience II in Grades 6-8 | 0 | TEP 3180 S | Field Experience III in Grades 4-5 | 0 |
| HDFS 311 F , S | Adolescent Development | 3 | EDUC 3470 S | Science CC I (C4) | 3 |
| HIST 258 | Historical Methods | 3 | BIBL 2xx | Encountering the Bible* | 3 |
| TOTAL |  | 18 |  | TOTAL | 18 |
| Submit Professional Semester application by 11/1 to B414. |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
|  | Professional Semester |  | EDUC 346 J | Socio-Cult. Perspective on Educ (C3) | 3 |
| EDUC 420. F, ${ }^{\circ}$ | Professional Issues in Education | 2 | THEO XXX | Christian Beliefs* | 3 |
| TEP 433 ${ }^{\text {F, }}$ S | Student Teaching: Grades 4-8 |  | Varies | ArtMusic/Theatre meeting QuEST Arts* | 3 |
| TEP $407{ }^{\circ} \mathrm{F}$, S | Student Teaching Seminar | 1 | HIST 3XX | History (Non-Western) | 3 |
|  |  |  | ESS 201 | Earth and Space Science (C4) | 3 |
|  |  |  | HIST 141/142 | U.S. History | 3 |
| TOTAL |  | 12 |  | TOTAL | 18 |
| *QuEST requirement |  |  |  |  |  |
| F=Fall, J=J-term, S=Spring; compiled 3/8/11 <br> ${ }^{\circ}$ Courses to be taken concurrently/3 clearances required <br> (w) Writing enriched course <br> Chapter 354 Requirements: <br> Math ( 6 credits): EDUC 209, CIS 171 <br> English ( 6 credits): IDFY 101, ENGL 160 (W) |  |  |  |  |  |

$\dagger$ Indicates a requirement for admission to the TEP.
\#\#Environmental/Plant Science electives:

BIOL 140 Ecology and Sustainability (3)
BIOL 162 Plant Form and Function (3)

BIOL 216 Environmental Issues and Sustainable Solutions (3)
BIOL 315 Environmental Ethics (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

- Language course
- BIOL 106
- PHSC 102
-EDUC 226
- HIST 141
- Arts course meeting QuEST

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

| C1 = Math core $\quad$ C |  |  | $\mathrm{C} 2=$ English core C3 = Socia |  | Studies core C4 = Science core |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Course \# | Course nam |  | Credits | Course \# | Course name | Credits |
| First Year - Fall |  |  |  | First Year - Spring |  |  |
| IDFY 101t | First Year Se |  | 3 | IDCR 151 | Created and Called for Community* ${ }^{*}$ (W) | 3 |
| Varies | 1 st Language |  | 3 | Varies | $2{ }^{\text {nd }}$ Language* | 3 |
| BIOL $106 \mathrm{~F}, \mathrm{~S}$ | Life Science |  | 3 | PHSC $102 \mathrm{~F}, \mathrm{~S}$ | Physical Science* (C4) | 3 |
| COMM 105t | Oral Commu |  | 3 | CIS 171-181+F,J, | Computer Science* (C1) | 3 |
| MATH 101/ 102/108//111 $\dagger$ | Math (C1) |  | 3-4 | ENGL 160tF, | World Literature* | 3 |
|  |  |  | WELL 1xx | Wellness* | 1 |
|  |  | TOTAL |  | 15-16 | TOTAL |  | 16 |
|  |  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by $3 / 31$ to B414. |  |  |
| Sophomore-Fall |  |  |  | Sophomore-Spring |  |  |
| Varies | 3rd Language |  | 3 | EDSP 207c F, ${ }^{\text {c }}$ | Intro to Special Education | 3 |
| EDUC 209 F,S | Principals \& | s of Math(C1) | 3 | EDUC 2036 F, | Educational Psychology | 3 |
| EDUC $346 \mathrm{~F}, \mathrm{~S}$ | Sociocultural | ctives | 3 | TEP 210 ${ }^{\text {c F , }}$ S | Sophomore Field Experience | 0 |
| PHYS 201\# | Introductory |  | 4 | ESS 201 | Earth and Space (C4) | 3 |
| $\begin{aligned} & \text { BIOL 117/160/ } \\ & 162 / 258 \# \end{aligned}$ | Biology |  | 3-4 | BIBL 20X | Encountering the Bible* | 3 |
|  |  |  | EDUC 208 | Teaching English Language Learners | 3 |
|  |  |  | EDUC $205 \mathrm{~F}, \mathrm{~S}$ | Cultural \& Political Geography (C3) | 3 |
| TOTAL 16-17 |  |  |  | TOTAL 18 |  |  |
|  |  |  |  |  | Submit Teacher Education Program app by 3/31 to B414. |  |  |
| Junior - Fall |  |  |  | Junior - Spring |  |  |
| EDUC 3310 F | Inst. Design \& Assess Mid \& Sec. |  |  | 3 | EDUC 302 ${ }^{\circ}$ | Literacy CC\& 1-II (C2) | 3 |
| EDSP $307{ }^{\circ} \mathrm{F}$ | Inclusion Practices |  | 3 | EDUC 304*S | Math CC \& 1-II (C1) | 3 |
| CHEM 102/ 103/105\# | Chemistry |  | 3 | EDUC 3420 S | Social Studies CC \& I (C3) | 3 |
| EDUC 305c F | Middle Level Methods |  | 3 | EDUC 226 F , J | Children's Literature (C2) | 3 |
| TEP 3160 F | Field Experience II in gr. 6-8 |  | 0 | TEP 3180 ${ }^{\circ}$ | Field Experience Ill in gr. 4-5 | 0 |
| HDFS 311F, | Adolescent Development |  | 3 | EDUC 347 ${ }^{\circ}$ | Science CC I (C4) | 3 |
| BIOLXXX\# | Plant/Environmental Science elective |  | 3 |  |  |  |
|  | TOTAL |  | 18 | TOTAL |  | 15 |
| Submit Professional Semester application by 11/1 to B414. |  |  |  |  |  |  |
|  | Senior - Fall |  |  | Senior-Spring |  |  |
|  | Professional Semester |  |  | EDUC 346 J | Socio-Cult. Perspective on Educ (C3) | 3 |
| EDUC 420' F , | Professional lssues in Education |  | 2 | THEO XXX | Christian Beliefs* | 3 |
| TEP 433C F, S | Student Teaching: Grades 4-8 |  | 9 | Varies | Art/Music/Theatre/Dance (QuEST Arts)* | 3 |
| TEP 407 ${ }^{\circ} \mathrm{F}$, S | Student Teaching Seminar |  | 1 | HIST 141/142 | U.S. History* (C3) | 3 |
|  |  |  |  | Varies | Science Concentration Elective | 3-4 |
|  |  | TOTAL | 12 | TOTAL |  | 15-16 |
| \#Science Concentration (21 Credits Minimum) |  |  |  | *QuEST requirement <br> F=Fall, J=J-term, S=Spring; compiled 3/8/11 |  |  |
| BIOL3 |  | 3 |  |  |  |  |
| PHYS 201 |  | 4 |  | ${ }^{\circ}$ Courses to be taken concurrently/3 clearances required |  |  |
| CHEM 102/103/105 |  | 3-4 |  | (w) Writing enriched course <br> $\dagger$ Indicates a requirement for admission to the TEP. |  |  |
|  |  | 3-4 |  |  |  |  |
| Elective \#1 |  | 3-4 |  | Chapter 354 Requirements: |  |  |
| Elective \#2 |  | 3 3-4 |  | Math ( 6 credits): EDUC 209, CIS 171 |  |  |
| Elective \#1: PHYS 201, PHYS 211, MATH 211 |  |  |  | English (6 credits): IDFY 101, ENGL 160 (W) |  |  |

\# BIOL 140 Ecology and Sustainability (3)
BIOL 162 Plant Form and Function (3)
BIOL 216 Environmental Issues and Sustainable Solutions (3)
BIOL 315 Environmental Ethics (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, CIS 171, Language course, BIOL 106, PHSC 102, EDUC 226, HIST 141, ARTS XXX

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

| $\mathrm{C} 1=$ Math core $\quad \mathrm{C} 2=$ English cor |  |  | e C3 = Social Studies core |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Course \# | Course name | Credits | Course \# | Course name | Credits |
| First Year - Fall |  |  | First Year - Spring |  |  |
| IDFY 101† | First Year Seminar* (C2)* | 3 | IDCR 151 | Created and Called for Community* ${ }^{*}$ W) | 3 |
| Varies | 1st Language* | 3 | Varies | $2{ }^{\text {nd }}$ Language* | 3 |
| BIOL 106 F,S | Life Science (C4)* | 3 | PHSC 102 F,S | Physical Science* (C4) | 3 |
| COMM 105t | Oral Communication* | 3 | CIS 171-181†F,J,S | Computer Science* (C1) | 3 |
| MATH 101/102 108//111 $\dagger$ | Math (C1) | 3-4 | ENGL 122-176 $\dagger$ | Literature Elective | 3 |
|  |  |  | WELL 1xx | Wellness* | 1 |
|  | TOTAL | 15-16 |  | TOTAL | 16 |
|  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by $3 / 31$ to B 414 . |  |  |
| Sophomore -Fall |  |  | Sophomore-Spring |  |  |
| EDUC $346 \mathrm{~F}, \mathrm{~S}$ | Sociocultural Perspectives | 3 | EDSP 207c F, S | Intro to Special Education | 3 |
| Varies | $3{ }^{\text {rd }}$ Language* | 3 | EDUC 203'F, S | Educational Psychology | 3 |
| EDUC $209 \mathrm{~F}, \mathrm{~S}$ | Principals \& Structures of Math(C1) | 3 | TEP 210 ${ }^{\circ} \mathrm{F}$, S | Sophomore Field Experience | 0 |
| HIST 142 | U.S. History* (C3) | 3 | ESS 201 | Earth and Space (C4) | 3 |
| EDUC 208 | Teaching English Language Learners | 3 | HIST 141 | U.S. History* | 3 |
| BIBL 20x | Encountering the Bible* | 3 | HIST 3xx | History (Non-western)* | 3 |
|  |  |  | EDUC $205 \mathrm{~F}, \mathrm{~S}$ | Cultural \& Political Geography (C3) | 3 |
| TOTAL |  | 18 |  | TOTAL | 18 |
|  |  |  | Submit Teacher Education Program app by 3/31 to B414. |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| EDUC 331c F | Inst. Design \& Assess Mid \& Sec. | 3 | EDUC 302c S | Literacy CC\& I-II (C2) | 3 |
| EDSP 307c F | Inclusion Practices | 3 | EDUC 304' S | Math CC \& I - II (C1) | 3 |
| HIST 258 | Historical Methods | 3 | EDUC 342 ${ }^{\circ}$ | Social Studies CC \& ( C 3$)$ | 3 |
| EDUC 305 F | Middle Level Methods | 3 | EDUC 226 F,J | Children's Literature (C2) | 3 |
| TEP 316 ${ }^{\circ} \mathrm{F}$ | Field Experience II in Grades 6-8 | 0 | TEP 318c S | Field Experience III in Grades 4-5 | 0 |
| HDFS $311 \mathrm{~F}, \mathrm{~S}$ | Adolescent Development | 3 | EDUC 347c S | Science CC I (C4) | 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 J | Socio-Cult. Perspective on Educ (C3) | 3 |
| EDUC 420 F, ${ }^{\circ}$ | Professional Issues in Education | 2 | THEO xxx | Christian Beliefs* | 3 |
| TEP 433c F, S | Student Teaching: Grades 4-8 | 9 | Varies | Art/Music/Theatre meeting QuEST Arts* | 3 |
| TEP 407\% F, S | Student Teaching Seminar | 1 | HIST 171/172 | World Civilizations | 3 |
|  |  |  | ECON 110 | Economies of Social Issues | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 12 |  | TOTAL | 15 |

F=Fall, J=J-term, S=Spring; compiled 3/8/11
${ }^{\text {c Courses to be taken concurrently/3 clearances required }}$
(w) Writing enriched course
$\dagger$ Indicates a requirement for admission to the TEP.

Chapter 354 Requirements:
Math (6 credits): EDUC 209, CIS 171
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 | • BIOL 106 | • HIST 141 |
| :--- | :--- | :--- |
| - CIS 171 | - PHSC 102 | • Course meeting QuEST Arts |
| - MATH 101 | - EDUC 226 |  |
| - Language |  |  |

## III. ENGINEERING

## Contents

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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 University 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

## Degree Programs and Curriculum Details

| Bachelor of Science in Biomedical Engineering (BSBME) <br> 131 CR |
| :---: |
| Bachelor of Science in Civil Engineering (BSCE) <br> 131 CR |


| Bachelor of Science in Electrical Engineering (BSEE) |
| :---: |
| 131 CR |

## Bachelor of Science in Mechanical Engineering (BSME) 131 CR

Engineering Minors<br>Available to majors in another Engineering discipline<br>Biomedical Engineering<br>Civil Engineering<br>Electrical Engineering<br>Environmental Engineering<br>Mechanical Engineering

The BSE degree has been continuously accredited by ABET since 1993. That accreditation will be maintained indefinitely according to the typical ABET review cycle.

The BSBME, BSCE, BSEE, and BSME degrees are new at Messiah University beginning in Fall 2019. Students graduating May 2022 or later may choose these degree paths. Accreditation of new degree programs is not possible until the program has at least one graduate. Successful accreditation at that point would be retroactive to those graduates. Messiah University anticipates applying for accreditation in these programs in the Spring of 2022 with notification of official action by Summer 2023. All concentrations will be maintained within the BSE program through the transition and will also benefit from the curricular enhancements of the new programs.


| Electrical Concentration $128 \mathrm{CR}$ |
| :---: |
| Mechanical Concentration $128 \text { CR }$ |
| Computer Concentration $128 \mathrm{CR}$ |
| Environmental Concentration $128 \mathrm{CR}$ |

General Engineering 123 CR
Consider pairing with a Messiah University minor (samples below) or with courses recommended for PreMed or Pre-Health careers by our MC
Pre- Health Professions Advising Service.
Physics
Chemistry
Business Administration
Leadership
Computer Science
Economic Development Spanish
Music

## 8 Semester Plans

## Biomedical Engineering (BSBME)

*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 ${ }^{*}$ | 4 | MATH 112 | Calculus II | 4 |
| CHEM 105 | Chemistry* | 4 | PHYS 211 | General Physics I | 4 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| IDFY 101 | First Year Seminar** | 3 | Varies | 1st Language requirement* | 3 |
|  |  |  |  |  |  |
| Total |  | 16 | Total |  | 16 |
|  |  |  |  |  |  |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
|  |  |  | ENGR 211 | Project Management | 1 |
| ENGR 214 | Materials Engineering | 4 | ENGR 215 | Circuits I | 4 |
| ENGR 216 | Mechanics I | 3 | ENGR 212 | Programming for Engineers (J-term) | 2 |
| MATH 211 | Calculus III | 4 | ENGR 323 | Mechanics II | 3 |
| PHYS 212 | General Physics II | 4 | MATH 270 | Linear and Differential Methods | 3 |
| Varies | 2nd Language requirement* | 3 | PHIL or RELI | Philosophy or Religion meeting QuEST* | 3 |
|  |  |  |  |  |  |
| Total |  | 18 | Total |  | 16 |
|  |  |  |  |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ENGR 371 | Thermodynamics | 3 | ENGR 332 | BME Laboratory Techniques | 3 |
| ENGR 301 | Seminar I | 1 | ENGR 213 | Engineering Statistics | 3 |
| ENGR 331 | Biomechanics | 4 | ENGR 415 | Engineering Project | 1 |
| ENGR 415 | Engineering Project | 1 | Varies | Social Science/history meeting QuEST* | 3 |
| WELL 1 xx | Wellness* | 1 | ENGL 1xx | Literature meeting QuEST* | 3 |
| Varies | Biomedical Science Elective | 3 | BIBL 2xx | Bible* | 3 |
| HIST 1xx | History meeting QuEST* | 3 |  |  |  |
|  |  |  |  |  |  |
| Total |  | 16 | Total |  | 16 |
|  |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
| ENGR 302 | Seminar II | 1 |  |  |  |
| ENGR 377 | Fluid Dynamics | 4 | ENGR 431 | Biomedical Instrumentation | 4 |
| ENGR 324 | Control Systems | 4 | ENGR 415 | Engineering Project | 2 |
| ENGR 415 | Engineering Project | 2 | Varies | Biomedical Science Elective | 4 |
| ENGR 432 | Design of Medical Devices | 4 | THEO 2xx | Christian Beliefs* | 3 |
| Varies | 3rd Language/NonWestern/CrossCultura** | 2-3 | Varies | Ethics/WV/Pluralism* | 3 |
|  |  |  |  |  |  |
|  | Total | 17-18 |  | Total | 16 |

## Civil Engineering (BSCE)

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 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | Varies | 1st Language* | 3 |
|  |  |  |  |  |  |
| Total |  | 16 | 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 (J-term) | 2 |
| GEOL 201 | Foundations of Geology | 4 | ENGR 213 | Engineering Statistics | 3 |
| Varies | 2nd Language* | 3 | ENGR 323 | Mechanics II | 3 |
|  |  |  | MATH 270 | Linear and Differential Methods | 3 |
|  |  |  | WELL 1xx | Wellness* | 1 |
|  |  |  |  |  |  |
| Total 18 |  |  | Total 17 |  |  |
|  |  |  |  |  |  |
| 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 | Social Science/History* | 3 | BIBL 2xx | Bible* | 3 |
| PHIL or RELI | Philosophy or Religion meeting QuEST* | 3 |  |  |  |
| Total |  | 16 | 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 | Soil Mechanics and Foundation Design | 4 | Varies | 3rd Language/NonWestern/Cross Cultural* | 2-3 |
| HIST 1xx | History* | 3 | THEO 2xx | Christian Beliefs* | 3 |
| ENGL 1xx | Literature* | 3 | Varies | Ethics/WV/Pluralism* | 3 |
|  |  |  |  |  |  |
|  | Total | 16 |  | Total | 16-17 |

## Electrical Engineering (BSEE)

## 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 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | Varies | 1st Language* | 3 |
|  |  |  |  |  |  |
| Total |  | 16 | 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 (J-term) | 2 |
| MATH 211 | Calculus III | 4 | ENGR 214 | Materials Engineering | 4 |
| PHYS 212 | General Physics II | 4 | ENGR 361 | Circuits II | 4 |
| Varies | 2nd Language* | 3 | MATH 270 | Linear and Differential Methods | 3 |
|  |  |  | PHIL or RELI | Philosophy or Religion meeting QuEST* | 3 |
|  |  |  |  |  |  |
| Total |  | 18 | Total |  | 17 |
|  |  |  |  |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ENGR 462 | Power Systems Engineering | 4 |  |  |  |
| ENGR 301 | Seminar I | 1 | ENGR 213 | Engineering Statistics | 3 |
| ENGR 362 | Analog Electronics | 3 | ENGR 364 | Electrical Devices | 4 |
|  |  |  | ENGR 365 | Linear Systems | 3 |
| ENGR 415 | Engineering Project | 1 | ENGR 415 | Engineering Project | 1 |
| WELL 1xx | Wellness* | 1 | HIST 1xx | History* | 3 |
| ENGL 1xx | Literature* | 3 | THEO 2xx | Christian Beliefs* | 3 |
| BIBL 2xx | Bible* | 3 |  |  |  |
| Total |  | 16 | Total |  | 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 | Social Science/History* | 3 | Varies | Ethics/WV/Pluralism* | 3 |
| Varies | 3rd Language/NonWestern/Cross Cultura** | 2-3 |  |  |  |
|  |  |  |  |  |  |
| Total |  | 15-16 | Total |  | 16 |

## Mechanical Engineering (BSME)

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 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | Varies | 1st Language* | 3 |
|  |  |  |  |  |  |
| Total |  | 16 | 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 (J-term) | 2 |
| PHYS 212 | General Physics II | 4 | ENGR 323 | Mechanics II | 3 |
| Varies | 2nd Language* | 3 | MATH 270 | Linear and Differential Methods | 3 |
|  |  |  | ENGL 1xx | Literature* | 3 |
|  |  |  |  |  |  |
| Total |  | 18 | Total |  | 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 | Social Science/History* | 3 |
| ENGR 415 | Engineering Project | 1 | BIBL 2xx | Bible* | 3 |
| WELL 1xx | Wellness* | 1 | Varies | 3rd Language/NonWestern/Cross Cultural* | 2-3 |
| PHIL or RELI | Philosophy or Religion meeting QuEST* | 3 |  |  |  |
|  |  |  |  |  |  |
| Total |  | 16 | Total |  | 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 | HIST 1xx | History* | 3 |
| ENGR 415 | Engineering Project | 2 | Varies | Ethics/WV/Pluralism* | 3 |
| THEO 2xx | Christian Beliefs* | 3 |  |  |  |
|  |  |  |  |  |  |
| Total |  | 17 | Total |  | 16 |

## Engineering (BSE) with Computer 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 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | Varies | 1st Language* | 3 |
|  |  |  |  |  |  |
| Total |  | 16 | 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 (J-term) | 2 |
| MATH 211 | Calculus III | 4 | ENGR 214 | Materials Engineering | 4 |
| PHYS 212 | General Physics II | 4 | ENGR 361 | Circuits II | 4 |
| Varies | 2nd Language* | 3 | MATH 270 | Linear and Differential Methods | 3 |
|  |  |  | CIS 284 | Computer Programming II | 3 |
|  |  |  |  |  |  |
| Total |  | 18 | Total |  | 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 | Social Science/History* | 3 |
| ENGR 415 | Engineering Project | 1 | PHIL or RELI | Philosophy or Religion meeting QuEST* | 3 |
| CIS 384 | Elements of Computer Systems | 3 | WELL 1xx | Wellness* | 1 |
| BIBL 2xx | Bible* | 3 | HIST 1xx | History* | 3 |
| ENGL 1xx | Literature* | 3 |  |  |  |
|  |  |  |  |  |  |
| Total |  | 17 | Total |  | 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 | MATH 180 | Discrete Mathematics | 3 |
| CIS 385 | Data Structures and Algorithms | 3 | THEO 2xx | Christian Beliefs* | 3 |
| Varies | 3rd Language/NonWestern/Cross Cultural* | 2-3 | Varies | Ethics/WV/Pluralism* | 3 |
|  |  |  |  |  |  |
|  | Total | 15-16 |  | Total | 15 |

# Engineering (BSE) with Environmental Concentration <br> 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 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | Varies | 1st Language* | 3 |
|  |  |  |  |  |  |
| Total |  | 16 | 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 (J-term) | 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 |
|  |  |  | Varies | 2nd Language* | 3 |
|  |  |  |  |  |  |
| Total |  | 15 | Total |  | 17 |
|  |  |  |  |  |  |
| 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 | ENGL 1xx | Literature* | 3 |
| WELL 1xx | Wellness* | 1 | Varies | 3rd Language/NonWestern/Cross Cultural* | 2-3 |
| Varies | Social Science/History* | 3 |  |  |  |
|  |  |  |  |  |  |
| Total |  | 16 | Total |  | 16-17 |
|  |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
| ENGR 302 | Seminar II | 1 | PHIL or RELI | Philosophy/Religion meeting QuEST* | 3 |
| ENGR 346 | Water Resources Engineering | 3 | ENGR 415 | Engineering Project | 2 |
| ENGR 415 | Engineering Project | 2 | ENGR 452 | Hazardous Waste and Air Pollution Mgmt | 3 |
| Varies | Environmental Elective | 3 | HIST 1xx | History* | 3 |
| Varies | Environmental Science Elective | 3 | THEO 2xx | Christian Beliefs* | 3 |
| BIBL 2xx | Bible* | 3 | Varies | Ethics/WV/Pluralism* | 3 |
|  |  |  |  |  |  |
| Total |  | 15 |  | Total | 17 |

## III. English

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## Guidelines for Mathematical Sciences Courses

There is no specific math course required for the English 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.

## Secondary Teaching Certification in English

All students in this major 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. Students who have taken AP exams in calculus, computer science, or statistics should go to the English 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: English with Secondary Teaching Certification (B.A.)

The department offers you this scheduling matrix reflecting an idealized order; however, individual situations vary.

| Course \# | Course name | Credits | Course \# | Course name | $\begin{gathered} \text { Credit } \\ \mathrm{s} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| COMM 105 | Oral Communication* | 3 | Varies | $2^{\text {nd }}$ language* | 3 |
| Varies | 1st language* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| IDFY 101 | First Year Seminar* | 3 | Varies | Math elective 2 | 3 |
| CIS 171 | Problem Solving with Computers*^ | 3 | HIST xxx | U.S. or European History* | 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 |  | TOTAL | 15 |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| EDSP 207 | Introduction to Special Education++^ | 3 | IDST xxx | Science, Technology \& the World* | 3 |
| EDUC 203 | Educational Psychology + +^ | 3 | EDUC 346 | Sociocultural Perspectives on Education+^ | 3 |
| EDUC 210 | Sophomore Field Experience ${ }^{+}$^(fall or spring) | 0 | EDUC 208 | Teaching English Language Learners | 3 |
| $\begin{aligned} & \text { ENGL } 360 \\ & \text { Or ENGL } 370 \end{aligned}$ | Topics: Young Adult Literature (even years) or Composition Theory (odd years) | 3 | ENGL 320 or ENGL 340 | British Literature after 1800 or ENGL 340 American Lit after1900 | 3 |
| ENGL 310 or ENGL 330 | British Literature or ENGL 330 American Lit (odd years) | 3 | BIBL 201 | Bible* | 3 |
| Varies | 3 rrd language or Cross Cultura** | 3 | Varies | Elective | 3 |
|  |  |  | Submit Teacher Education Program app by 3/31 to B414. |  |  |
| Junior - Fall $\quad$ TOTAL 15 |  |  |  | TOTAL | 18 |
|  |  |  | Junior - Spring |  |  |
| Varies or ENGL 307 | Laboratory Science* or Teaching English Sec School^ (even yr) | 3-4 | Varies | Philosophy and Religion* | 3 |
| EDUC 331 | Instructional Design and Assessment++^ | 3 | Varies | Art, Theatre, Music or Dance* (Theatre) | 3 |
| EDSP 307 | Inclusion Practices++^ | 3 | $\begin{aligned} & \text { ENGL } 320 \\ & \text { or ENGL } 340 \end{aligned}$ | British Literature after 1800 or ENGL 340 American Lit after 1900 | 3 |
| TEP 310 | Junior Field Experience++^(fall or spring) | 0 | ENGL 350 | Postcolonial/World Literature | 3 |
| ENGL 310 or ENGL 330 | British Literature or ENGL 330 American Lit (odd years) | 3 | WELL 1xx | Wellness* | 1 |
| $\begin{aligned} & \text { ENGL } 370 \\ & \text { Or ENGL } 360 \end{aligned}$ | Comp Theory and Pedagozo (odd years) or Young Adult Lit (even years) | 3 | Varies | Christian Beliefs* | 3 |
| Submit Professional Semester application by 11/1 to B414 |  |  |  |  |  |
| Senior - Fall |  |  |  | TOTAL | 16 |
|  |  |  | Senior - Spring |  |  |
| Varies | Ethics, World Views or Pluralism* | 3-4 | TEP 435 | Student Teaching: Secondary + ^ | 9 |
| Varies or ENGL 307 | Laboratory Science* or Teaching English Sec School^ (even yr) | 3-4 | TEP 410 | Secondary Pre-Student Teaching+ ${ }^{\wedge}$ | 0 |
| ENGL 494 | Senior Seminar: Literature | 3 | EDUC 420 | Professional Issues in Education ${ }^{\wedge}$ | 2 |
| HDFS 311 | Adolescent Development+^ | 3 | TEP 407 | Seccondary Student Teaching Seminar ${ }^{\wedge}$ | 1 |
| XxX | Elective | 3 | EDUC 420 | Professional Issues in Education+^ | 2 |
|  |  |  |  | TOTAL | 12 |
|  | TOTAL | 15-17 |  |  | 123 |
| *QuEST requirement ${ }^{\wedge}$ certification requirement <br> All courses marked with this symbol must be taken concurrently as indicated. |  |  |  |  |  |

## 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.

## Nutrition and Dietetics (B.S.) Progression Requirements

In order to progress into NUTR 410, 411, and 425, students must have completed the following courses with no grades lower than a C- in each and an average GPA in them of 2.5 ( 2.75 if more than one of these courses is transferred to Messiah):

CHEM 105, 106, and 204 or CHEM 309/310
BIOL 185 or BIOL 160
NUTR 121 and 222.
Students who do not achieve the required minimum GPA will not be able to complete the Nutrition and Dietetics major. Student grades will be reviewed at the completion of CHEM 105 and 106 and NUTR 121. Typically, this will happen after the first two semesters. Students who have less than a 2.5 cumulative GPA in these three classes (less than a 2.75 for students who transfer one of these classes in) will be considered to be on probation as far as the progression in the major is concerned.

## Nutrition and Dietetics (B.S.) Progression Course Repeat Policy

One course from the above list may be repeated one time. An attempt at a course will include all letter grades as well as W, WP, and WF. 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 rational for the exception to the DPD Director. If the appeal is denied, the department 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

| Semester 1 |  | Semester 2 |  |
| :---: | :---: | :---: | :---: |
| IDFY 101 First-Year Seminar* | 3 | COMM 105 (J-term) Fundamentals of Oral Communication* | 3 |
| Varies $1^{\text {st }}$ Language* | 3 | ATHT 140 Prevention \& Management of Injury | 2 |
| MATH 102, MATH 108, or MATH 111 * | 3-4 | IDCR 151 Created \& Called for Community* | 3 |
| CHEM 103 Chemical Science or CHEM 105 Gen Chemistry | 4 | Varies 2nd Language* | 3 |
| APHS 170 Concepts of Conditioning* | 2 | HIST xxx History meeting QuEST* | 3 |
| ATHT 102 Intro to Athletic Training | 1 | PSYC 101 Intro to Psychology* | 3 |
| Total | 16-17 | Total | 17 |
| Semester 3 |  | Semester 4 |  |
| ATHT 235 Orthopedic Assessment | 3 | Varies J-term ART, MUGE, DANC or THEA meeting QuEST* | 3 |
| APHS 271 Kinesiology | 3 | STAT 269 Introductory Statistics* | 3 |
| BIOL 160 Molecular/Cellular Biology with Lab* | 4 | BIOL 186 Human Anatomy \& Physiology II with Lab | 4 |
| BIOL 185 Human Anatomy \& Physiology I with Lab | 4 | APHS 215 Chronic Disease and Exercise | 3 |
| GERO 251, PSYC 209, PSYC 210, PSYC 311, or PSYC 312 | 3 | ATHT 203 Medical Terminology | 2 |
|  |  | BIBL 2xx Bible* | 3 |
| Total | 17 | Total | 18 |
| Semester 5 |  | Semester 6 |  |
| ENGL 1xx Literature meeting QuEST* | 3 | Varies 3rd Language or Cross-Cultural* | 3 |
| ATHT 339 Therapeutic Interventions | 3 | IDNW xxx Non-Western* | 2-3 |
| PHIL/RELI xxx Philosophy/Religion meeting QuEST * | 3 | APHS 325 Exercise Nutrition and Metabolism | 3 |
| APHS 301 Exercise Physiology with Lab | 4 | THEO 2xx Christian Beliefs* | 3 |
| PHYS 201 Physics I with Lab | 4 | Varies Ethics/Pluralism/World Views* | 3 |
|  |  | ATED 480 Athletic Training Senior Seminar | 4 |
| Total | 17 | Total | 17-18 |
| Summer between Semester 6 and 7 |  |  |  |
| ATHT 507 Emergency Management | 1 |  |  |
| ATHT 501 The Professional Athletic Trainer | 1 |  |  |
| ATHT 510 Clinical Rotation I: Messiah/HS/College | 1 |  |  |
| ATHT 505 Bracing and Taping | 1 |  |  |
| Total | 4 |  |  |
| Semester 7 |  | Semester 8 |  |
| 8 weeks |  | ATHT 545 J-term Kinesiology with Lab | 2 |
| ATHT 524 Evaluation of the Upper Extremity | 1.5 | 8 weeks |  |
| 8 weeks |  | ATHT 530 Clinical Rotation III | 1.5 |
| ATHT 526 Assessment of the Lower Extremity | 1.5 | ATHT 534 Evaluation of the Spine | 1.5 |
| 16 weeks |  | ATHT 537 General Medical/Pharmacology Topics | 1.5 |
| ATHT 518 Scientific Inquiry I | 3 | 8 weeks |  |
| ATHT 520 Clinical Rotation II: Messiah/HS/College | 3 | ATHT 540 Clinical Rotation IV | 1.5 |
| ATHT 522 Therapeutic Interventions | 3 | ATHT 543 Eating for Recovery and Performance | 1.5 |
| Total | 12 | ATHT 547 Head Injury in Sport | 1.5 |
|  |  | 16 weeks |  |
|  |  | ATHT 528 Scientific Inquiry II | 3 |
| Summer between Semester 8 and 9 |  | Total | 14 |
| ATHT 555 Gross Human Anatomy | 3 |  |  |
| Semester 9 |  | Semester 10 |  |
| 8 weeks |  | 8 weeks |  |
| ATHT 637 Behavioral Health | 1.5 | ATHT 634 Case Review III Spine | 3 |
| 8 weeks |  | ATHT 653 Administration \& Liability | 1.5 |
| ATHT 647 Human Performance Training | 1.5 | ATHT 657 Epidemiology \& Public Health | 1.5 |
| 16 weeks |  | 8 weeks |  |
| ATHT 624 Case Review I Upper Extremity | 3 | ATHT 660 Clinical VI Immersive | 4 |
| ATHT 626 Case Review II Lower Extremity | 3 | ATHT 695 Graduate Capstone (online) | 2 |
| ATHT 650 Clinical Rotation V | 3 | Total | 12 |
| Total | 12 |  |  |

## 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 | $2^{\text {nd }}$ language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| Varies | $1{ }^{\text {st }}$ 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* (1st or ${ }^{\text {nd }}$ 年 year) | 3 |
| MATH/CIS/STAT | Mathematical Science* (1st year) | 3 | BIOL 189 | Genetics for Health Profession | 3 |
| Varies | Literature* (19t or $2^{\text {nd }}$ year) | 3 | HIST | History* (1st or $2^{\text {nd }}$ 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 | APHS xxx | APHS elective | 3 |
| IDNW xxx | Non-Western Studies* (2nd or 3rd year) | 2-3 | Varies | $33^{\text {rd }}$ language or Cross Cultural ${ }^{*}$ (2 ${ }^{\text {nd }}$ or 3 rd $y$ ear) | 3 |
| NUTR 222 | Nutrition Theory | 3 | Varies | Elective | 3 |
| APHS xxx | APHS 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* (3rd-4 ${ }^{\text {th }} \mathrm{yr}$ ) | 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* (1st or $2^{\text {nd }}$ year) | 3 |
| Varies | Elective | 3 | Varies | Elective | 3 |
| THEO 2xx | Christian Beliefs* (2 ${ }^{\text {nd }}$ or 3 ${ }^{\text {rd }}$ year) | 3 | Varies | Elective | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 13-15 |  | TOTAL | 15 |

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

# Applied Health Science (B.S.) / Occupational Therapy (M.S.O.T.) 3+2 Suggested 8-Semester Plan 

## Note: This major open only to students already accepted by Thomas Jefferson

| 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 | 4 | BIOL 186 | Human Anatomy and Physiology II | 4 |
| APHS 170 | Concepts of Conditioning | 2 | Varies | $2^{\text {nd }}$ language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| PSYC 101 | Introduction to Psychology | 3 | COMM 105 | Oral Communication* | 3 |
| Varies | $1{ }^{\text {st }}$ language* | 3 | PSYC 209 | Life Span Development | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| APHS 215 | Chronic Disease and Exercise | 3 | BIBL 20X | Knowledge of the Bible* (1 ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| STAT 269 | Statistics* | 3 | HIST | History* (1st or ${ }^{\text {nd }}$ year) | 3 |
| SOCI 101 | Principles of Sociology* | 3 | Varies | Art, Music or Theatre* (1st or ${ }^{\text {nd }}$ year) | 3 |
| CHEM 103 | Chemical Science* | 4 | PSYC 319 | Abnormal Psychology | 3 |
| IDNW xxx | Non-Western Studies* (2nd ${ }^{\text {nd }} 3^{\text {rd }}$ year) | 2-3 | BIOL 189 | Genetics for Health Professions | 3 |
| WELL 1xx | Wellness* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 1 | SOAN 212 | Cultural Anthropology | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 16 | TOTAL |  | 18 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| NUTR 222 | Nutrition Theory | 3 | THEO 2XX | Christian Beliefs* (2 ${ }^{\text {nd }}$ or 3 ${ }^{\text {rd }}$ year) | 3 |
| APHS 301 | Exercise Physiology | 4 | APHS 325 | Exercise Nutrition and Metabolism | 3 |
| ENGL 1xx | Literature* (1st or 2nd year) | 3 | APHS 412 | Senior Seminar | 3 |
| RELI/PHIL | Religion/Philosophy* (1st or 2nd year) | 3 | Varies | Ethics/Pluralism/World Views* (3rd- 4n $^{\text {th }} \mathrm{yr}$ ) | 3 |
| Varies | 3 rd language or Cross Cultural* (2ndor3rd yr ) | 3 | APHS 360 | Exercise Testing and Prescription | 3 |
|  |  |  | APHS xxx | APHS elective | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 16 |  | TOTAL | 18 |
| Senior Fall @ TJU |  |  | Senior Spring @ TJU |  |  |
| OT 302 | App. Anatomy and Kinesiology | 4 | OT 308 | Concepts in Neurodevelopment L/L | 4 |
| OT 311 | Health and Health Conditions | 4 | OT 322 | Found of Occupation-Centered Pract I | 2 |
| OT 321 | Found of Occupation-Centered Pract I | 2 | OT 357 | Evaluation Process | 4 |
| OCT 336 | Occupation through Lifespand L/L | 5 |  |  |  |
| OT | Domains of OT Practice Field Work I | 2 |  |  |  |
| TOTAL |  | 17 |  | TOTAL | 8 |

Summer courses at TJU include:
OT 341 Occupational analysis and evaluation-Fieldworklevel 1: 2 cr OT 467 Health Services Administration \& Professional Development: 2 cr OT 603 Research Mentorship and Methods: 4 cr

- Substitute OT 302 for APHS 271
- Substitute OT 311 for HPED 305
- Students will also take other courses their senior year at TJU, but these are 500+ level courses and there do not count towards the undergraduate degree.
- Thomas Jefferson will accept CLEP and AP credits with the exception of Anatomy and Physiology.
- Thomas Jefferson will NOT accept transfer credits from other institutions.
- Students must have a "B" average between BIOL 185 \& 186.
- Students may "walk" in the Messiah College May graduation ceremony, but will not complete their Messiah College degree until August, contingent upon successful completion of OT 467.


# Applied Health Science (Pre-0T) (B.S) / Occupational Therapy MOT Suggested Course Sequencing 

| Course \# | Course name | Credits | Course \# | Course name | $\begin{array}{\|c} \hline \text { Credit } \\ s \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Semester 1 - Fall |  |  | Semester 2 - Spring |  |  |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| BIOL 185 | Human Anatomy and Physiology I | 4 | BIOL 186 | Human Anatomy and Physiology II | 4 |
| APHS 170 | Concepts of Conditioning | 2 | Varies | 2nd language* (1st or 2nd year) | 3 |
| PSYC 101 | Introduction to Psychology* | 3 | COMM 105 | Oral Communication* | 3 |
| Varies | 1st language | 3 | PSYC 209 | Life Span Development | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 16 |
| Semester 3-Fall |  |  | Semester 4 - Spring |  |  |
| APHS 215 | Chronic Disease and Exercise | 3 | BIBL 20X | Knowledge of the Bible* (1st or 2nd year) | 3 |
| STAT 269 | Statistics* | 3 | HIST | History* (1st or 2nd year) | 3 |
| CHEM 103 | Chemical Science | 4 | varies XXX | Art, Music, or Theatre* (1st or 2nd year) | 3 |
| APHS 220 | Health Promotion Management | 3 | PSYC 319 | Abnormal Psychology | 3 |
| Varies | 3rd lang. or CrossCultura*** (2nd or 3rd year) | 3 | BIOL189 | Genetics for Health Professions | 3 |
|  |  |  | ATHT 203 | Medical Terminology and Topics | 2 |
|  | TOTAL | 16 |  | TOTAL | 17 |
| Semester 5 - Fall |  |  | Semester 6 - Spring |  |  |
| NUTR 222 | Nutrition Theory | 3 | THEO 2xx | Christian Beliefs* (2nd or 3rd year) | 3 |
| APHS 301 | Exercise Physiology | 4 | APHS 325 | Exercise Nutrition and Metabolism | 3 |
| ENGL xxx | Literature* | 3 | APHS 412 | Senior Seminar | 3 |
| RELI/PHIL | Religion/Philosophy* (1st or 2nd year) | 3 | IDS xxx | Ethics/Pluralism/World Views* (3rd or 4th year) | 3 |
| IDNW xxx | Non-Western Studies* (2nd or 3rd year) | 2-3 | APHS XXX | APHS Elective | 3 |
|  | Free Elective | 1 |  | Free Elective | 3 |
| TOTAL |  | 16-17 |  | TOTAL | 18 |
| Summer Between Semester 6 and 7 ( 9 credits) |  |  |  |  |  |
| OCCU 501 | Foundations of Occupational Therapy \# | 3 |  |  |  |
| OCCU 505 | Applied Anatomy \# | 3 |  |  |  |
| OCCU 505L | Applied Anatomy Lab \# | 0 |  |  |  |
| OCCU 508 | Enabling Occupations \# | 3 |  |  |  |
| TOTAL |  | 9 |  |  |  |

Continued on next page.

| Semester 7 - Fall |  |  | Semester 8 - Spring |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OCCU 524 | Theoretical Perspectives in Occ Therapy \# | 3 | IPEC 500 | Interprofessional Education (IPE) Seminar | 1 |
| OCCU 526 | Analysis of Occupation \# | 3 | OCCU 530 | Research Methods and Design | 3 |
| 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 in OT Practice | 4 |
| OCCU 535L | OT Process: Psychosocial Practice Lab \# | 0 | OCCU 555L | Neurological Conditions in OT Practice Lab | 0 |
| OCCU 544 | Therapeutic Techniques \# | 3 | OCCU 562 | Level I Fieldwork: Pediatric Practice | 1 |
| OCCU 544L | Therapeutic Techniques Lab \# | 0 | OCCU 565 | OT Process: Pediatric Practice | 4 |
|  |  |  | OCCU 565L | OT Process: Pediatric Practice Lab | 0 |
|  | TOTAL | 16 |  | TOTAL | 16 |
| Summer Bet | ween Semester 8 and 9 ( 9 credits) |  |  |  |  |
| OCCU 602 | Level 1 Fieldwork Adult Practice | 1 |  |  |  |
| OCCU 605 | OT Process: Adult Practice | 4 |  |  |  |
| OCCU 605L | OT Process Adult Practice Lab | 0 |  |  |  |
| OCCU 615 | Adaptations \& Assistive Technology | 3 |  |  |  |
| OCCU 615L | Adaptations \& Assistive Technology Lab | 0 |  |  |  |
|  | TOTAL | 8 |  |  |  |


| Semester 9 - Fall |  |  | Semester 10 - Spring |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OCCU 572 | Level I Fieldwork: Community Interventions | 2 | OCCU 583 | Cultural \& Global Considerations | 2 |
| OCCU 573 | Health Promotion in OT: Community Inter | 2 | OCCU 586 | Spirituality, Meaning \& Health in Occupation | 2 |
| OCCU 623 | Administration, Management \& Leadership | 3 | OCCU 622 | Fieldwork Level II-A | 6 |
| OCCU 625 | OT Process: Older Adult Practice | 4 |  |  |  |
| OCCU 625L | OT Process: Older Adult Practice Lab | 0 |  |  |  |
| OCCU 630 | Research Seminar | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 14 |  | TOTAL | 10 |
|  |  |  |  |  |  |
| Summer Aft | Semester10 ( 7 credits) |  |  |  |  |
| OCCU 632 | Fieldwork Level II-B | 6 |  |  |  |
| OCCU 636 | Enrichment Seminar | 1 |  |  |  |
|  | TOTAL | 7 |  |  |  |

*QuEST requirement
\# Graduate Course that fulfills Undergraduate Requirements (total of 25 credits)

Total UG Credits: 98
Total GR Credits Applied to the Undergraduate Degree: 25
Total Credits in the BS in APHS (Pre-OT) degree 123-124
Unique GR Credits: 55
Total Credits: 178-179 total credits
(total credits required if both degrees are completed: 203)

## 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 160 | Molecular and Cellular Biology | 4 | COMM 105 | Oral Communication* | 3 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| PSYC 101 | Introduction to Psychology | 3 | MATH xxx | Math 102, 108 or 111* (1st or $2^{\text {nd }}$ year) | 3-4 |
| Varies | $1{ }^{\text {st }}$ language* | 3 | Varies | $2^{\text {nd }}$ language* $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 15 |  | TOTAL | 15-16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| APHS 215 | Chronic Disease and Exercise | 3 | APHS 301 | Exercise Physiology | 4 |
| Varies | APHS/ATED/HPED elective** | 3 | BIBL 20x | Knowledge of the Bible* (1 ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| CHEM 105 | General Chemistry I | 4 | CHEM 106 | General Chemistry II | 4 |
| ENGL xxx | Literature* (1st or 2nd year) | 3 | HIST 1 xx | History* (1st or $2^{\text {nd }}$ year) | 3 |
| Varies | Elective | 3 | Varies | Non-Western Studies* (2 ${ }^{\text {nd }}$ or $3^{\text {rd }}$ year) | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 17 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| APHS 271 | Kinesiology | 3 | APHS 325 | Exercise Nutrition and Metabolism | 3 |
| BIOL 382 | Microbiology for Health Professions | 4 | Varies | APHS/ATED/HPED elective** | 3 |
| Varies | PSYC 209, HDFS 210, 311, 312 or GERO 251 | 3 | PHYS 202 | Physics | 4 |
| Varies | Art, Music or Theatre* (1st or $2^{\text {nd }}$ year) | 3 | Varies | $3{ }^{\text {rd }}$ language or Cross Cultural* ${ }^{\text {( }}$ (d or $3^{\text {rd }}$ year) | 3 |
| PHYS 201 | Physics I | 4 | THEO 2xx | Christian Beliefs* (2 ${ }^{\text {nd }}$ or ${ }^{\text {rd }}$ year) | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 17 |  | TOTAL | 16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| IDS xxx | Ethics/Pluralism/World Views* (3rd-4 ${ }^{\text {th }} \mathrm{yr}$ ) | 3 | APHS 412 | Senior Seminar | 3 |
| BIOL 385 | Physiology | 4 | BIOL 386 | Human Anatomy | 4 |
| Varies | APHS/ATED/HPED elective** | 3 | RELI/PHIL | Religion/Philosophy* (1st or ${ }^{\text {nd }}$ year) | 3 |
| Varies | APHS/ATED/HPED elective** | 3 | Varies | APHS/ATED/HPED elective** | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 13 |  | TOTAL | 13 |

Total Credits: 123
*Students must take at least 9 credits of department electives (specific APHS/HPED or ATED 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 382 (Offered every fall and spring odd years only)

## 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 160 | Molecular and Cellular Biology | 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 | $1{ }^{\text {st }}$ language* | 3 | Varies | $2^{\text {nd }}$ language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 16 | TOTAL |  | 16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| APHS 215 Chronic Disease and Exercise |  | 3 | BIBL 20x Knowledge of the Bible ${ }^{*}$ (2nd or 3rd year) |  | 3 |
| BIOL 382 | Microbiology for Health Professions | 4 | HIST 1xx | History* ( $1^{\text {st }}$ or $2^{\text {nd }}$ 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 ${ }^{\text {nd }}$ or $3^{\text {rd }}$ 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* (1st or ${ }^{\text {nd }}$ year) | 3 | Varies | $3{ }^{\text {rd }}$ language or Cross Cultural* ${ }^{\text {( }}$ nd or $3^{\text {rd }}$ year) | 3 |
| ENGL xxx | Literature* (19t or $2^{\text {nd }}$ year) | 3 | Varies | APHS/ATED/HPED elective | 3 |
| PHYS 201 | Physics | 4 | RELI/PHIL | Religion/Philosophy* (1st or ${ }^{\text {nd }}$ year) | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 16 | TOTAL |  | 16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| IDS xxx | Ethics/Pluralism/World Views* (3rd- $4^{\text {th }} \mathrm{yr}$ ) | 3 | APHS 412 | Senior Seminar | 3 |
| THEO 2xx | Christian Beliefs* (2nd or 3 ${ }^{\text {rd }}$ year) | 3 | Varies | Electives or Internship | 3 |
| Varies | APHS/ATED/HPED elective | 3 | Varies | Electives | 3 |
| BIOL 386 | Human Anatomy | 4 | Varies | Electives | 3 |
| TOTAL |  |  |  |  |  |
|  |  | 16 |  | TOTAL | 12 |

*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.

## Health \& Physical Education with K-12 Teacher Certification (B.A.) 8 Semester Plan

| 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 | CIS 171 | Problem Solving with Computers | 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 ${ }^{\text {st }}$ Semester of Language* | 3 | WELL 1xx | Wellness course option | 1 |
|  |  |  | HPED 236 | Med. Aspects of Sport | 2 |
|  | TOTAL | 16 |  | TOTAL | 16 |
| Take PAPA Exam unless exempt by SAT/ACT Score |  |  | March 31st - Submit clearances to TEP Office in Boyer 414 |  |  |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| BIOL 258 | Human Biology* | 4 | EDUC $203{ }^{\dagger}$ | Educational Psychology* | 3 |
| HDFS 210 | Child Development | 3 | EDSP 207 ${ }^{+}$ | Intro. to Special Education | 3 |
| Varies | QuEST 3 ${ }^{\text {rd }}$ Semester of Language* | 3 | TEP 210 ${ }^{+}$ | Sophomore Field Experience (T\&R) | 0 |
| BIBL 20x | QuEST Encountering the Bible* | 3 | HPED 224 | Personal and Community Health | 3 |
| APHS 170 | Concepts of Conditioning | 2 | EDUC 346 | Sociocultural Perspectives on Education | 3 |
| WELL 1 xx | Wellness course option | 1 | HPED 229 | Motor Learning | 3 |
| WELL 1xx | Wellness course option | 1 | APHS 271 | Kinesiology | 3 |
|  | TOTAL | 17 |  | TOTAL | 18 |
| 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 |  |  |  |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| TEP $310{ }^{\dagger}$ | Field Experience (Must meet TEP admission requirements) | 0 | EDUC 308 | Instr \& Assessment w/Eng Lang | 3 |
| EDSP 307¢ | Inclusion Practices | 3 | APHS 201 | Principles of Exercise Science* (STW) | 3 |
| EDUC 331 ${ }^{\dagger}$ | Instr Design and Assessment for Middle and Secondary Grades | 3 | HPED 423 | Principles of Admin. | 3 |
| HPED 305 | Cont. Issues in Health | 3 | WELL xxx | Wellness Course Option | 1 |
| HPED 329 | Sport \& Society* | 3 | HPED 309\# | Physical Education Instruction Elem (J-term) | 3 |
| Varies | QuEST Philosophy or Religion* | 3 | HPED 332 | Teaching Adapted PE | 1 |
| WELL 1 xx | Wellness course option | 1 | WELL 114 | Dance and Rhythm Activities | 1 |
| Nov 1st - Application for Professional Semester due |  |  |  |  |  |
|  |  |  | TOTAL |  |  |
|  | TOTAL | 16 |  |  | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| HPED 312 | P.E. Instr. Secondary | 3 | EDUC 420 ${ }^{+}$ | Prof Issues in Educ (J-term) | 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 | , |  |  |  |
|  | First Aid/CPR Competency | 0 |  |  |  |
| Take Praxis fall or early spring |  |  |  |  |  |
| Total |  | 14-15 |  | TOTAL | 12 |

*QuEST requirement; tCourses 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 2022) 8 Semester Plan

Graduating May 2022, Rev. 1/2018

**Students may substitute BIOL 160, 166, and 385 for BIOL 185 and 186 and CHEM 309 and 310 for CHEM 204

## Nutrition and Dietetics (B.S.) (for students graduating May 2023) 8 Semester Plan

Graduating May 2023, Rev. 1/2018

| 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 | $2^{\text {nd }}$ language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| Varies | $1{ }^{\text {st }}$ language* | 3 | NUTR 121 | Food and Food Science | 3 |
| NUTR 099 | Opportunities in Nutrition and Dietetics | 1 | PSYC 101 | Introduction to Psychology* | 3 |
| APHS 170 | Concepts of Conditioning | 2 |  |  |  |
|  |  |  | TOTAL |  |  |
| TOTAL 16 |  |  |  |  | 16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| BIOL 185 | Anatomy and Physiology | 4 | BIBL 20x | Knowledge of the Bible* (2nd $-4^{\text {th }}$ 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 | Nutrition Theory | 3 | Varies | History meeting QuEST* | 3 |
| PHIL/RELI $x x x$ | Philosophy/Religion* (1st or $2^{\text {nd }}$ year) | 3 | Varies | Literature meeting QuEST* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 16 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| NUTR 322 | Nutrition through the Life Cycle | 3 | NUTR 412 | Medical Nutrition Therapy II | 3 |
| NUTR 411 | Medical Nutrition Therapy I | 3 | NUTR 426 | Nutrient Metabolism \& Research Methods II | 3 |
| NUTR 425 | Nutrient Metabolism \& Research Methods I | 4 | THEO 2xx | Christian Beliefs* (2 ${ }^{\text {nd }}$ or 3 ${ }^{\text {rd }}$ year) | 3 |
| Varies | Elective | 3 | Varies | $3^{\text {rd }}$ language or Cross Cultural* $2^{\text {nd }}$ or $3^{\text {rd }}$ year) | 3 |
|  |  |  | Varies | Elective | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 13 | TOTAL |  | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| BIOL 382 | Microbiology | 4 | Varies | Ethics/Pluralism/World Views* ( 3 rod/4h yr) | 3 |
| NUTR 341 | Food Service | 4 | Varies | Non-Western Studies* (2nd or 3 ${ }^{\text {rd }}$ year) | 2-3 |
| NUTR 410 | Nutrition Education and Counseling | 3 | NUTR 331 | Advanced Food Science \&Technology | 3 |
| NUTR 493 | Senior Seminar | 1 | NUTR 352 | Community Nutrition | 3 |
| Varies | Elective | 3 | Varies | Arts* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 |  | TOTAL | 14-15 |
| *QuEST requirement, |  |  |  |  |  |

## Sport Management (B.A.) (students entering Fall 2020) 8 Semester Plan - for starting Even Year


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

## Sport Management (B.A.) (students entering Fall 2021)

## 8 Semester Plan - for starting Odd Years

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| COMM 105 | Oral Communication* | 3 | Varies | $1{ }^{\text {st }}$ language* | 3 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| MATH/CIS/STAT | Mathematical Science* (1st year) | 3 | HIST xxx | History* (1st or $2^{\text {nd }}$ year) | 3 |
| PSYC 101 | Introduction to Psychology* | 3 | Varies | Art/Music/Theatre* (1 ${ }^{\text {st }}$ or $2^{\text {nd }}$ 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 | $2^{\text {nd }}$ language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ 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 258 | Human Biology* | 4 | IDNW xxx | Non-Western Studies* (2 ${ }^{\text {nd }}$ or 3rd 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 ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 | Varies | $33^{\text {rd }}$ language or Cross Cultural* (2nd or $3^{\text {rd }}$ year) | 3 |
| THEO 2XX | Christian Beliefs* (2nd or 3rd 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 $x x x$ | Philosophy/Religion* (1st or 2 ${ }^{\text {nd }}$ year) | 3 | SPMT 410 | Topics in Sport Management | 2 |
| ENGL xxx | Literature* (1st or 2nd 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

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## Guidelines for Mathematical Sciences Courses

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 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 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 plan

## History (B.A.)

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| COMM 105 | Oral Communication* | 3 | Varies | Laboratory Science* | 3-4 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| HIST 099 | Introduction to History | 1 | HIST 141/142 | U.S. History Survey | 3 |
| HIST 101/102/134 | Western Civilization* | 3 | HIST 171/172 | World Civilizations | 3 |
| HIST 141/142 | U.S. History Survey* | 3 | varies | $2^{\text {nd }}$ semester foreign language* | 3 |
| varies | $1{ }^{\text {st }}$ semester foreign language* | 3 | WELL 1xx | Wellness* | 1 |
| TOTAL |  | 16 | TOTAL |  | 16-17 |
|  |  |  |  |  |  |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| MATH/CIS/STAT | Mathematical Science* meeting QuEST | 3 | Varies | Science, Tech, \& World* | 3 |
| HIST 258 | Historical Methods | 3 | HIST 3xx | Upper division history | 3 |
| HIST 3xx | Upper division history | 3 | BIBL 20x | Bible* | 3 |
| varies | 3 rd semester language or Cross Cultural | 3 | Varies | Philosophy or Religion meeting QuEST | 3 |
| varies | Literature course meeting QuEST* | 3 | Varies | QuEST arts requirement* | 3 |
|  | TOTAL | 15 |  | TOTAL | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| HIST 3xx | Upper division history | 3 | HIST 3xx | Upper division history | 3 |
| HIST 3xx | Upper division history | 3 | Varies | Elective | 3 |
| THEO 2xx | Christian Beliefs* | 3 | Varies | Elective | 3 |
| Varies | Course meeting QuEST Pluralism/Ethics* | 3 | Varies | Elective | 3 |
| Varies | Elective | 3 | Varies | Elective | 3 |
| Varies | Elective | 1 |  | Experiential learning encouraged here |  |
| TOTAL |  | 16 |  | TOTAL | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| HIST 401 | Senior Seminar (Historiography) | 3 | HIST 3xx | Upper division history | 3 |
| HIST 3xx | Upper division history | 3 | Varies | Elective | 3 |
| Varies | Elective | 3 | Varies | Elective | 3 |
| Varies | Elective | 3 | Varies | Elective | 3 |
| Varies | Elective | 3 | Varies | Elective | 3 |
| TOTAL |  | 15 |  | TOTAL | 15 |

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

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| COMM 105 | Oral Communication* | 3 | MATH/CIS/STAT | Mathematical Science* | 3 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| HIST 099 | Introduction to History | 1 | HIST 141/142 | U.S. History Survey | 3 |
| HIST 101/102/134 | Western Civilization* | 3 | HIST 171/172 | World Civilizations | 3 |
| HIST 141/142 | U.S. History Survey* | 3 | varies | $2^{\text {nd }}$ semester foreign language* | 3 |
| varies | $1{ }^{\text {st }}$ semester foreign language* | 3 |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 18 |
|  |  |  | Submit the three required security clearances (FBI, Child Abuse, Criminal) by $3 / 31$ to B414. |  |  |
|  |  |  |  |  |  |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| HIST 258 | Historical Methods | 3 | BIBL 20x | Bible* | 3 |
| HIST 390/3xx | Teaching History/Upper division history | 3 | HIST 3xx | Upper division history | 3 |
| ENGL 1xx | ENGL 122 to ENGL 175* | 3 | HIST 3xx | Upper division history | 3 |
| EDUC 203 | Educational Psychology+ | 3 | HDFS 311 | Adolescent Development+ | 3 |
| EDSP 207 | Introduction to Special Education+ | 3 | WELL 1xx | Wellness* | 1 |
| TEP 210 | Sophomore Field Experience+ | 0 | EDUC 346 | Sociocultural Perspectives in Educ | 3 |
| varies | $3^{\text {rd }}$ semester language or QuEST arts* | 3 |  |  |  |
|  | TOTAL | 18 |  | TOTAL | 16 |
|  |  |  | Submit Teacher Education Program application by 3/31 to B414. |  |  |
|  |  |  |  |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| POLI 113 | American Government | 3 | HIST 3xx | Upper division history | 3 |
| EDUC 331 | Instructional Design and Assessment+ | 3 | ECON 110 or 120 | Economics of Social Issues or Principles of Macroeconomics | 3 |
| EDSP 307 | Inclusion Practice+ | 3 | GEOG 103 | Regional Geography of the World | 3 |
| HIST 3xx | Upper division history | 3 | Varies | Laboratory Science* | 3-4 |
| HIST 390/3xx | Teaching History/Upper division history | 3 | Varies | 3 3rd semester language or QuEST arts* | 3 |
| TEP 310 | Junior Field Experience+ | 0 | EDUC 208 | Teaching English Language Learners+ | 3 |
| MATH/STAT or EDUC 209 | $2{ }^{\text {nd }}$ Mathematical Science meeting QuEST* | 3 |  |  |  |
|  | TOTAL | 18 |  | TOTAL | 18-19 |
|  |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
| HIST 401 | Senior Seminar (Historiography) | 3 | TEP 407 | Student Teaching Seminar+ | 1 |
| HIST 3xx | Upper division history | 3 | EDUC 420 | Professional Issues in Education+ | 2 |
| Varies | Philosophy or Religion meeting QuEST | 3 | TEP 410 | Secondary Pre-Student Teaching Exp.+ | 0 |
| Varies | QuEST arts requirement* | 3 | TEP 435 | Student Teaching: Secondary + | 9 |
| THEO 2xx | Christian Beliefs* | 3 |  |  |  |
| Varies | Science, Tech, \& World* | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 18 |  | TOTAL | 12 |

* QuEST requirement
+ Teacher education requirement. Note that these courses are co-requisite and should be taken during the same semester:

1. Sophomore Year (Fall or Spring Semester): EDUC 203, EDSP 207, and TEP 210
2. Junior Year (Fall or Spring Semester): EDUC 331, EDSP 307, and TEP 310
3. Senior Year (Spring Semester): EDUC 420, TEP 407, TEP 410, TEP 435

Note also that EDUC 203 is a prerequisite for HDFS 311
$x$ Strongly encouraged but not required

## 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 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: CIS 171 (Problem Solving with Computers) and STAT 269 (Introductory Statistics) by the conclusion of the sophomore year.

## 8-Semester Plan <br> Family and Consumer Sciences Education with K-12 Teaching Certification (B.S) for students with an odd year start



+ 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 CIS 171. 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) ${ }^{\wedge}$ HDFS 340 Ethics and Families fulfills the QuEST Ethics requirement; students may select other courses meeting QuEST Ethics.


# Family and Consumer Sciences Education with K-12 Teaching Certification (B.S) for students with an 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 | 1stlanguage* | 3 | IDCR 151 | Created and Called for Community* |  | 3 |
| BUSA 115 | Personal Money Management | 1 | ENGL 1xx | Literature meeting QuEST* |  | 3 |
| HDFS 099 | Opportunities in HDFS (Recommended, not required) | (1) | CIS 171 | Problem Solving with Computers+ |  | 3 |
| HDFS 101 | Foundations of Marriage and Family********) | 3 | Varies | $2^{\text {nd }}$ Semester Language* |  | 3 |
| HDFS 236 | Textile Construction | 1 | NUTR 121 | Food and Food Science |  | 3 |
| HDFS 237 | Interior Design | 1 |  |  |  |  |
| NUTR 110 | Science and Nutrition* | 3 |  |  |  |  |
| Varies | Wellness* | 1 | 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 | $3{ }^{\text {d }}$ Semester Language* | 3 | ART 334 | Wearable Art* |  | 3 |
| EDUC 203 | Educational Psycholog*** | 3 | BIBL 2xx | Knowledge of the Bible* |  | 3 |
| EDSP 207 | Introduction to Special Education** | 3 | EDUC 346 | Sociocultural Perspectives on Education |  | 3 |
| HDFS 244 | Human Sexuality | 3 | HDFS 253 | Community Service for Individuals \& Families |  | 3 |
| HDFS 245 | Family Resource Management | 3 | HDFS 210 | Child Development |  | 3 |
| STAT 269 | Introductory Statistics+ | 3 |  |  |  |  |
| TEP 210 | Sophomore Field Experience ${ }^{* *}$ | 0 |  |  |  |  |
|  |  |  | Submit Teacher Education Program application by 3/31 to B414-TEP Office |  |  |  |
| TOTAL 18 |  |  |  |  | TOTAL | 15 |
| 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 | PHILRELI xxx | Philosophy/Religion* |  | 3 |
| HDFS 307 | FCS Curriculum and Instruction ${ }^{* * *}$ | 2 | THEO XXX | Christian Beliefs* |  | 3 |
| $\begin{array}{\|l\|} \hline \text { HDFS 378,383, } \\ 384,386 \end{array}$ | One HDFS 300-level selective from this list. | 3 | Varies | Ethics*^( ( required for CFLE) |  | (3) |
| HDFS 311 | Adolescent Development | 3 | NUTR 331 | Advanced Food Science and Technology |  | 3 |
| TEP 310 | Junior Field Experience** | 0 |  |  |  |  |
|  | TOTAL 17 |  |  |  |  |  |
| Submit Professional Semester application by $11 / 1$ to B414-TEP |  |  |  | TOTAL |  | 15-18 |
| Senior - Fall (odd yr) |  |  | Senior - Spring (even yr) |  |  |  |
| EDUC 208 | Teaching English Language Learners | 3 | TEP 407 | Student Teaching Semina*** |  | 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 | Non-Western Studies* | 2-3 |  |  |  |  |
| TOTAL |  | * 17-18 TOTAL |  |  |  | 15 |

[^4]
## Human Development and Family Science (B.A) <br> 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 (recommended, not required) | (1) | Varies | Art, Music, Theatre or Dance** | 3 |
| IDFY 101 | First Year Seminar | 3 | Varies | $22^{\text {nd }}$ Language meeting QuEST* | 3 |
| Varies | Lab Science* (NUTR 110 preferred) | 3-4 | HDFS 210 | Child Development | 3 |
| Varies | 1 st language meeting QuEST* | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL 15-17 |  |  | TOTAL |  | 15 |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| HDFS 244 | Human Sexuality | 3 | HDFS 253 | Community Services - Individuals \& Families | 3 |
| HDFS 245 | Family Resource Management | 3 | BIBL 2xx | Encountering the Bible/OT/NT* | 3 |
| HDFS 311 | Adolescent Development | 3 | HDFS 345 | Parenting | 3 |
| Varies | 3 rd Language or Cross Cultural* | 3 | Varies | Literature meeting QuEST* | 3 |
| WELL 1xx | Wellness* | 1 | 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 |
| STAT 269 | Introductory Statistics | 3 |  |  |  |
| TOTAL 16 |  |  | TOTAL |  | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| HDFS 355 | Marital and Couple Relationships | 3 | Varies | Science, Technology and World* | 3 |
| HDFS 339 | Dynamics of Family Interaction | 3 | HDFS 340 | Ethics \& Families | 3 |
| HDFS 378 or HDFS 383 or HDFS 386 | Latino Families OR <br> Topics in Multicultural Family Studies OR <br> Family Ethnicity and Human Services | 3 | HDFS 312 | Adult Development | 3 |
| HIST 1xx | History* | 3 | HDFS 391 or GERO 391 | Family Service Practicum OR Aging Practicum | 1-3 |
| HDFS 272 | Research Methods and Analysis in HDFS | 3 | PHIL/RELI $x x x$ | Philosophy/Religion Elective* | 3 |
|  |  |  | Varies | Non-Western Studies* | 2-3 |
|  |  |  |  |  |  |
| TOTAL 15 |  |  | TOTAL |  | 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 | 12-18 |  | TOTAL | 12-18 |

## III. MODERN LANGUAGES

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## 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 Modern Languages that the courses they select are approved for the Chinese major.

## French Major

Pre-requisite FREN 206. Students should complete 12-18 credits of approved courses during the semester in Paris, France or Strasbourg, France. Students must take at least one course in French language, and should select the rest from 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 Modern Languages that the courses they select are approved for the French 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 or Universidad de Granada, Spain. 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 Modern Languages that the courses selected are approved for the Spanish major.

## 8 Semester Plans

*QuEST requirement
**LANG 493 must be taken in the fall semester of the senior year.

## Chinese with Teaching Certification (B.A) <br> 8 Semester Plan


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 493 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.

French (B.A.)
8 Semester Plan


# French with Teaching Certification (B.A) 

 8 Semester Plan
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 French Education students are advised to take the junior block during the fall of their senior year.
**LANG 320, LANG 493 must be taken in the fall semester of the senior year.
**EDUC 410, 420, 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.

## 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 | $1^{\text {st }}$ History or Social Science meeting QuEST* | 3 |
| WELL 1xx | Wellness* | 1 | Varies | Elective or minor | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL 17 |  |  |  | TOTAL | 16 |
| 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 | $2^{\text {nd }}$ History or Social Science meeting QuEST* | 3 |
| Varies | Elective or minor | 3 | Varies | Literature meeting QuEST* (SPAN 301, 311, 314 or 331) | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15-16 | TOTAL |  | 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 15 |  |  |  | TOTAL | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| LANG 493** | Modern Language Seminar | 3 | Varies | SPAN 316, 320, 331 | 3 |
| SPAN 3xx | 2nd 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 |  | 15 |  | TOTAL | 15 |
| ${ }^{\wedge}$ Students should confirm with the Department of Modern Languages that the courses that they select are approved for the Spanish major. |  |  |  | of the senior year. <br> courses that they select are approved for the |  |

# Spanish with Teaching Certification (B.A) <br> 8-Semester Plan 


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 493 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.
${ }^{\wedge}$ 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 <br> Applied Music Juries

1. All music majors, except those in the Music (Business) and Music (Music and Worship) degrees, 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 Music (Business) 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 or in J-Term.
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 (Business) and Music (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 <br> cr req'd | Special Notes |
| :--- | :---: | :--- |
| Music (B.A) Composition | 6 | The distribution of the 6 credits is listed below |
| Music (B.A.) Commercial <br> \& 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, <br> 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 take two mathematical science courses during the first or second year.

## 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 (J-term, alternate year, beginning in January 2017)
MUCM 431 (Fall, every 2-3 years beginning in Fall 2016)
MUSI 452 (Fall, alternate years, beginning in Fall 2016)
MUSI 271 (J-term, 3 out of 4 years, beginning in J-term 2018)
MUSI 301 (Spring, every 2-3 years beginning Spring 2017)
MUSI 303 (Spring, every other year beginning Spring 2017)
MUED 227 (J-term, every 3-4 years, beginning in J-term 2016)
MUED 240 (Offered every 2-3 years, beginning in Fall 2016)

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

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| 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 |
| MUAP | Applied Music | 1-2 | MUAP | Applied Music | 2 |
| MUEN | Ensemble | 0-5 | MUEN | Ensemble (2) | 1 |
| MUSI 001 | Concert Attendance | 0 | MUSI 001 | Concert Attendance | 0 |
| MUED 221 | Percussion Class | 1 | MUED 222 | Brass Class | 1 |
| MUED 140 | Voice Class | 1 | CIS/MATH/STAT | QUEST Math+ | 3 |
| MATH 101 | Introduction to Mathematics | 3 | IDCR 151 | Created and Called for Community+ | 3 |
| COMM 105 | Fundamentals of Oral Communication+ | 3 | ENGL 122-176 | Literature+ | 3 |
| IDFY 101 | First Year Seminar+ | 3 |  |  |  |
| TOTAL 17.5-18 |  |  | TOTAL 18 |  |  |
| Sophomore-Fall |  |  | Sophomore - Spring |  |  |
| MUTH 201 | Music Theory III | 3 | MUTH 202 | Music Theory IV | 3 |
| MUTH 207 | Sight Singing/Ear Training III | 1 | MUAP | Applied Music | 2 |
| MUAP | Applied Music | 2 | MUMH 303 | Music History I | 2 |
| MUEN | Ensemble (2) | 1 | MUEN | Ensemble (2) | 1 |
| MUSI 001 | Concert Attendance | 0 | MUSI 001 | Concert Attendance | 0 |
| MUED 201 | Introduction to Music Education | 1 | MUED 251 | Conducting I: Fundamentals | 2 |
| MUED 311 | Woodwinds Class | 1 | MUED 211 | Strings Class | 1 |
| EDSP 207 | Introduction to Special Education | 3 | EDUC 208 | Instruction and Assessment with ELL | 3 |
| EDUC 203 | Educational Psychology | 3 | Varies | QuEST or Music Elective | 3 |
| TEP 210 | Sophomore Field Experience | 0 |  |  |  |
| Varies | QuEST or Music Elective | 3 |  |  |  |
| Junior - Fall TOTAL 18 |  |  | TOTAL |  | 14-17 |
|  |  |  | Junior - Spring |  |  |
| MUMH 304 | Music History II | 3 | MUMH 305 | Music History III | 3 |
| MUEN | Ensemble | 1 | MUAP | Applied Music | 2 |
| MUSI 001 | Concert Attendance | 0 | MUEN | Ensemble | 0 |
| MUED 301 | C\&1: 6-12 Choral | 3 | MUSI 001 | Concert Attendance | 0 |
| EDSP 307 | Inclusion Practices | 3 | MUED 402 | C\&I: General Music with FE | 3 |
| TEP 310 | Junior Field Experience | 0 | EDUC 346 | Sociocultural Perspectives on Education | 3 |
| MUAP | Applied Music | 2 | MUED 352 | Instrumental Conducting | 2 |
| Varies | QuEST or Music Elective | 3-6 |  | QuEST or Music Elective | 3 |
|  |  |  |  |  |  |
| TOTAL 15-18 |  |  | TOTAL 16 |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
| MUSI 481 | Senior Seminar in Music | 1 | MUEN | Ensemble | . 5 |
| MUAP | Applied Music | 2 | TEP 407 | Student Teaching Seminar | 1 |
| MUEN | Ensemble | 1 | TEP 438 | Student Teaching; Music | 8 |
| MUSI 001 | Concert Attendance | 0 | TEP 413 | Student Teaching Experience in Music |  |
| MUED 401 | C\&I: 4-12 Instrumental | 3 | Varies | QuEST (J-term) | 3 |
| MUMH 338 | Studies in Global Music | 2 |  |  |  |
| NUTR 110 | Science and Nutrition | 3 |  |  |  |
| Varies | QuEST or Music Elective | 3 |  |  |  |
|  | TOTAL | 15 |  | TOTAL | 12.5 |

**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)

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

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | First Year - Fall | 17.5-18 |  | First Year - Spring | 18 |
| 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 |
| MUAP | Applied Music | 1-2 | MUAP | Applied Music | 2 |
| MUEN | Ensemble | 0-. 5 | MUEN | Ensemble (2) | 1 |
| MUSI 001 | Concert Attendance | 0 | MUSI 001 | Concert Attendance | 0 |
| MUED 221 | Percussion Class | 1 | MUED 222 | Brass Class | 1 |
| MATH 101 | Introduction to Mathematics | 3 | CIS/MATH/STAT | QUEST Math+ | 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+ | 3 |
| Sophomore-Fall |  |  | Sophomore - Spring |  |  |
| MUTH 201 | Music Theory III | 3 | MUTH 202 | Music Theory IV | 3 |
| MUTH 207 | Sight Singing/ Ear Training III | 1 | MUAP | Applied Music | 2 |
| MUAP | Applied Music | 2 | MUMH 303 | Music History 1 | 2 |
| MUEN | Ensemble (2) | 1 | MUEN | Ensemble (2) | 1 |
| MUSI 001 | Concert Attendance | 0 | MUSI 001 | Concert Attendance | 0 |
| MUED 201 | Introduction to Music Education | 1 | MUED 251 | Conducting I: Fundamentals | 2 |
| MUED 311 | Woodwinds Class | 1 | MUED 211 | Strings Class | 1 |
| EDSP 207 | Introduction to Special Education | 3 | NUTR 110 | Science and Nutrition | 3 |
| EDUC 203 | Educational Psychology | 3 | EDUC 208 | Instruction and Assessment with ELL | 3 |
| TEP 210 | Sophomore Field Experience | 0 |  |  |  |
|  | QuEST or Music Elective | 3 |  |  |  |
| TOTAL 18 |  |  | TOTAL 16 |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| MUMH 304 | Music History II | 3 | MUMH 305 | Music History III | 3 |
| MUEN | Ensemble | 0 | MUAP | Applied Music | 2 |
| MUSI 001 | Concert Attendance | 0 | MUEN | Ensemble | 1 |
| MUED 401 | C\&I: 4-12 Instrumental | 3 | MUSI 001 | Concert Attendance | 0 |
| EDSP 307 | Inclusion Practices | 3 | MUED 402 | C\&I: K-5 General Music with FE | 3 |
| TEP 310 | Junior Field Experience | 0 | EDUC 346 | Sociocultural Perspectives on Education | 3 |
| MUAP | Applied Music | 2 | MUMH 338 | Studies in Global Music | 2 |
| MUED 351** or MUSI 452** | Choral Conducting or Vocal Pedagogy | $\begin{aligned} & 2 \\ & 3 \end{aligned}$ | Varies | QuEST or Music Elective | 3 |
|  |  |  |  |  |  |
| TOTAL 16-17 |  |  |  | TOTAL | 17 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| MUSI 481 | Senior Seminar in Music | 1 | MUEN | Ensemble | . 5 |
| MUAP | Applied Music | 2 | TEP 407 | Student Teaching Seminar | 1 |
| MUEN | Ensemble | 1 | TEP 438 | Student Teaching; Music | 8 |
| MUSI 001 | Concert Attendance | 0 | TEP 413 | Pre-Student Teaching Experience in Music | 0 |
| MUED 301 | C\&I: 6-12 Choral | 3 | Varies | QuEST (J-term) | 3 |
| MUED 351** or MUSI 452** | Choral Conducting or Vocal Pedagogy | 2-3 |  |  |  |
| Varies | QuEST or Music Elective | 3-6 |  |  |  |
|  | TOTAL | 12-16 |  | TOTAL | 12.5 |

**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).
4. To enter the clinical nursing courses, you will need to achieve a prerequisite earned GPA of 2.70 and a minimum grade of "C" in specified prerequisite courses. 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 382.
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 College 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 | $2^{\text {nd }}$ level language* | 3 |
| BIOL 185 | Human Anatomy \& Physiology I* | 4 | IDCR 151 | Created \& Called for Community* | 3 |
| PSYC 101 or SOCI 101 or HDFS 101 | Intro to Psychology * or <br> Principles of Sociology * or Foundations of Marriage and Family * (one of these only) | 3 | BIOL 189 | Genetics for Health Professions | 3 |
| Varies | $1{ }^{\text {st }}$ 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 382 | Microbiology for Health Professionals | 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 | Nutrition Theory | 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 | 4 | NURS 305 | Nursing Research I | 2 |
| NURS 310 | Nursing Care of the Childbearing Family | 4 | PHIL/RELI $x x x$ | Philosophy/Religion+ | 3 |
|  |  |  |  |  |  |
| TOTAL 17 |  |  | TOTAL |  | 16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| varies | Worldviews/Pluralism/Ethics* | 3 | NURS 495 | Senior Practicum-International or Local (Jterm only) | 3 |
| NURS 410 | Psychiatric/Mental Health Nursing | 4 | NURS 413 | Leadership in Nursing | 3 |
| NURS 411 | Nursing Care of the Critically III | 4 | NURS 412 | Community Health Nursing | 4 |
| NURS 405 | Nursing Research II | 2 | NURS 496 | Senior Seminar | 3 |
| THEO xxx | Christian Beliefs* | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16 |  | TOTAL | 13 |
|  |  | *QuEST requirement |  |  |  |

## III. PHILOSOPHY

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## Guidelines for Mathematical Sciences Courses

There is no specific math course required for the Philosophy 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 General Education 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.

## III. POLITICS and INTERNATIONAL RELATIONS

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## Guidelines for Mathematical Sciences Courses

There is no specific math course required for the Politics and International Relations 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 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.

## Recommended QuEST sequencing

## 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 |  | 3 |
| Varies | 1 st language requirement | 3 | Varies | 2 $2^{\text {nd }}$ language requirement |  | 3 |
| COMM 105 | Foundations of Oral Communication | 3 | Varies | Laboratory Science |  | 3-4 |
| Varies | Mathematical Science | 3-4 | HIST 1xx | History meeting QuEST |  | 3 |
| $\begin{aligned} & \text { POLI } 113 \text { or } \\ & \text { POLI } 204 \end{aligned}$ | American Government OR History of Political Thought | 3 |  | Major requirement |  | 3 |
|  |  |  |  |  |  |  |
| Total |  | 15 | Total |  |  | 15-16 |
|  |  |  |  |  |  |  |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |  |
| Varies | 3 rdd language requirement | 3 | ENGL 1xx | Literature meeting QuEST |  | 3 |
| BIBL 2xx | Bible | 3 | Varies | Philosophy or Religion |  | 3 |
|  | Major requirement | 3 |  | Major requirement |  | 3 |
|  | Major requirement | 3 |  | Major requirement |  | 3 |
|  | Electives or minor |  |  | Electives or minor |  |  |
|  |  |  |  |  |  |  |
| Total |  | 12-18 | Total |  |  | 12-18 |
|  |  |  |  |  |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |  |
| Theo 2xx | Christian Beliefs | 3 | WELL 1xx | Wellness |  | 1 |
| Varies | Art, Music, Dance, or Theatre meeting Quest | 3 | Varies | , Non-Western |  | 3 |
|  | Major requirement | 3 |  | Major requirement |  | 3 |
|  | Major requirement | 3 |  | Major requirement |  | 3 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total |  | 12-18 |  |  | Total | 12-18 |
|  |  |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |  |
| Varies | Ethics, World View or Pluralism | 3 | Varies | Science, Technology \& the World |  | 3 |
|  | Major requirement | 3 |  | Major requirement |  | 3 |
|  | Electives or minor | 3 |  | Electives or minor |  | 3 |
|  | Electives or minor | 3 |  | Electives or minor |  | 3 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total |  | 12-18 |  |  | Total | 12-18 |

There is a curricular design and rationale for the QuEST curriculum, so to every degree possible, try to keep the General Education requirements in their recommended year.
Year 1: $1^{\text {st }}$ and $2^{\text {nd }}$ Language, Oral Comm, FYS, CCC
Year 2: Bible
Years 1-2: Literature, Social Sciences/History, Philosophy/Religion, $3{ }^{\text {rd }}$ language, Years 3-4: Pluralism, Christian Beliefs, Ethics/World View/Pluralism

## III. PSYCHOLOGY

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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 or SOCI 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.

## Bio-Psychology 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 Martha Smith, 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.

## 8-semester plan <br> Biopsychology (B.S)

## 8 Semester Plan

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| BIOL 160** | Molecular and Cellular Biology | 4 | BIOL 161** | Animal Form/Function (J-Term) | 3 |
| CHEM 105 | General Chemistry ${ }^{*}$ | 4 | BIOL 162** | Plant Form and Function | 3 |
| IDFY 101 | First Year Seminar* | 3 | CHEM 106 | General Chemistry II | 4 |
| PSYC 099** | Writing for Psychology | 1 | IDCR 151 | Created and Called for Community* | 3 |
| PSYC 101 | Introduction to Psychology | , | PSYC 271 or STAT 269 | Statistics* | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 17 |
| Sophomore-Fall |  |  | Sophomore - Spring |  |  |
| BIBL 2xx | Encountering the Bible* | 3 | CHEM $310^{* * *}$ | Organic Chemistry II | 4 |
| BIOL 260** | Genetics and Development | 3 | Varies | $2^{\text {nd }}$ Language course* | 3 |
| CHEM 309*** | Organic Chemistry I | 4 | PSYC 209 | Life Span Development | 3 |
| Varies | 1st $^{\text {L }}$ anguage course* | 3 | PSYC 272 | Research Methods in Psychology | 3 |
| PSYC 350 | Biological Basis of Behavior | 3 | Varies | Elective | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16 | TOTAL |  | 16 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| BIOL 387 | Neuroscience | 3 | BIOL xxx | Biology elective $\dagger$ | 3-4 |
| Varies | Literature meeting QuEST* | 3 | COMM 105 | Oral Communication* | 3 |
| Varies | $3{ }^{\text {rd }}$ Language or Cross-Cultural ${ }^{*}$ | 3 | PHILRELI | Philosophy or Religion meeting QuEST* | 3 |
| Varies | Mathematical Science meeting QuEST* | 3 | PSYC 351 | Sensation and Perception | 3 |
| PSYC 319/345 | Abnormal Psychology or Cognition | 3 | Varies | Elective | 3 |
| WELL 1xx | Wellness Course* | 1 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16 | TOTAL |  | 15-16 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| BIOL xxx | Biology elective | 3-4 | BIOL495 or PSYC 494 | Capstone Biology OR Psychology | 3 |
| IDNW xxx | Non-Western Studies* | 2-3 | HIST xxx | History meeting QuEST* | 3 |
| PSYC 408 | Experimental Psychology | 3 | THEO/RELI | Christian Beliefs* | 3 |
| Varies | Ethics/World Views/Pluralism* | 3 | Varies | Art, Music, Theatre or Dance* | 3 |
| Varies | Elective | 3 | Varies | Elective | 3 |
|  |  |  |  |  |  |
| TOTAL |  |  |  |  |  |
|  |  | 15-16 |  | TOTAL | 15 |

**Students may take BIOL 185, 186, 189 and PSYC 099 in place of BIOL 160, 161, 162 and 260.
*** Students may take CHEM 204 in place of CHEM 309 and 310.
$\dagger$ Needed only if BIOL 185/186/189 taken.
Total $=122 *-127$ credits
*NOTE: 123 credits are still needed to graduate

## Psychology (B.A.) <br> 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 258 | Human Biology | 4 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created \& Called for Community* | 3 |
| Varies | Math/CIS/Statistics* | 3 | Varies | $1^{\text {st }}$ language* | 3 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | PHIL/RELI | Philosophy or Religion Elective* | 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 | $2^{\text {nd }}$ language* | 3 | Varies | 3 rd language or Cross Cultural* | 3 |
| BIBL 2xx | Encountering the Bible/OT/NT* | 3 | Varies | Literature Elective* | 3 |
| HIST xxx | History meeting QuEST* | 3 | Varies | Free Elective | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| $\begin{aligned} & \text { PSYC } 345 \\ & \text { or } 350 \end{aligned}$ | Cognition or Biological Basis Behavior | 3 | PSYC xxx | Psychology Elective | 3 |
| IDNW 2xx | Non-Western Studies* | 2-3 | PSYC xxx | Psychology Elective | 3 |
| Varies | Art, Music, Theatre or Dance* | 3 | PSYC 411 | History and Systems | 3 |
| IDST 2xx | Science, Technology, \& World* | 3 | THEO $x$ xx | 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 |
|  |  |  | Varies | Free Elective | 3 |
|  | TOTAL | 14-15 | TOTAL |  | 18 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| $\begin{aligned} & \text { PSYC } 408 \\ & \text { or } 409 \end{aligned}$ | Experimental Psychology or Psychology Testing | 3 | $\begin{aligned} & \text { PSYC } 494 \\ & \text { PSYC xxx } \end{aligned}$ | Psychology Seminar Psychology Elective | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ |
| WELL xxX | Wellness Course* | 1 | Varies | Free 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 |

Total $=123-124$ credits
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 258 | Human Biology | 4 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created \& Called for Community* | 3 |
| MATH/CIS/STAT | Math/CIS/Statistics* | 3 | Varies | $1{ }^{\text {st }}$ language* | 3 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | PHIL/RELI | Philosophy or Religion Elective* | 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 | 3 | PSYC 226 | Social Psychology | 3 |
| Varies | $2^{\text {nd }}$ language* | 3 | Varies | 3 3rd language or Cross Cultura** | 3 |
| BIBL 2xx | Encountering the Bible/OT/NT* | 3 | Varies | Literature meeting QuEST* | 3 |
| HIST xxx | History meeting QuEST* | 3 | Varies | Free Elective | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL 15 |  |  |  | TOTAL | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| PSYC 345 / 204 | Cognition or Bio. Basis Behavior | 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 | Art, Music, Theatre or Dance* | 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 |  |  |
| $\begin{aligned} & \text { PSYC } 408 \text { or } \\ & 409 \end{aligned}$ | Experimental Psychology 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 | Wellness Course* | 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 |

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



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 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Semester 1 - Fall |  |  | Semester 2 - Spring |  |  |
| PSYC 101 | Introduction to Psychology | 3 | PSYC 209 | Lifespan Development | 3 |
| PSYC 099 | Writing for Psychology | 1 | IDCR 151 | Created \& Called for Community* | 3 |
| IDFY 101 | First Year Seminar* | 3 | PHIL/RELI | Philosophy or Religion Elective* | 3 |
| MATH/CIS/STAT | Math/CIS/Statistics* | 3 | Varies | $2^{\text {nd }}$ language* | 3 |
| COMM 105 | Fundamentals of Oral Communication* | 3 | BIOL 258 | Human Biology | 4 |
| Varies | $1{ }^{\text {st }}$ language* ${ }^{\text {* }}$ | 3 |  |  | 16 |
| TOTAL 16 |  |  | TOTAL |  |  |
| Semester 3-Fall |  |  | Semester 4 - Spring |  |  |
| 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 |
| Varies | $3{ }^{\text {rd }}$ language or Cross Cultura** | 3 | IDxx xxx | Ethics/World Views/Pluralism* | 3 |
| BIOL 185 | Human Anatomy and Physiology 1 | 4 | BIOL 186 | Human Anatomy and Physiology II | 4 |
|  |  |  | ATHT 201 | Medical Terminology | 2 |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 18 |
|  | Semester 5 - Fall |  |  | Semester 6 - Spring |  |
| PSYC 494 | Psychology Seminar | 3 | PSYC 351 | Sensation and Perception | 3 |
| PSYC 408 | Experimental Psychology (Fall Only) | 3 | PSYC 319 | Abnormal Psychology | 3 |
| IDNW 2xx | Non-Western Studies* | 2-3 | PSYC 441 | History and Systems | 3 |
| THEO xxx | Christian Beliefs* | 3 | Varies | Art, Music, Theatre or Dance meeting QuEST* | 3 |
| Varies | Elective | 2 | HIST xxx | History meeting QuEST* | 3 |
| WELL xxx | Wellness course* | 1 |  |  |  |
|  |  |  | Varies | Literature meeting QuEST* | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 17 |

Summer Between Semester 6 and 7 ( 9 credits)

| OCCU 501 | Foundations of Occupational Therapy \# | 3 |
| :---: | :---: | :---: |
| OCCU 505 | Applied Anatomy \# | 3 |
| OCCU 505L | Applied Anatomy Lab \# | 0 |
| OCCU 508 | Enabling Occupations\# | 3 |

TOTAL 9

| Semester 7 - Fall |  |  | Semester 8 - Spring |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OCCU 524 | Theoretical Perspectives in Occ Therapy \# | 3 | IPEC 500 | Interprofessional Education (IPE) Seminar | 1 |
| OCCU 526 | Analysis of Occupation \# | 3 | OCCU 530 | Research Methods and Design | 3 |
| 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 in OT Practice | 4 |
| OCCU 535L | OT Process: Psychosocial Practice Lab \# | 0 | OCCU 555L | Neurological Conditions in OT Practice Lab | 0 |
| OCCU 544 | Therapeutic Techniques \# | 3 | OCCU 562 | Level I Fieldwork: Pediatric Practice | 1 |
| OCCU 544L | Therapeutic Techniques Lab \# | 0 | OCCU 565 | OT Process: Pediatric Practice | 4 |
|  |  |  | OCCU 565L | OT Process: Pediatric Practice Lab | 0 |
|  | TOTAL | 16 |  | TOTAL | 16 |

Summer Between Semester 9 and 10 ( 9 credits)

| OCCU 602 | Level 1 Fieldwork Adult Practice | 1 |
| :--- | :--- | :--- |
| OCCU 605 | OT Process: Adult Practice | 4 |
| OCCU 605L | OT Process Adult Practice Lab | 0 |
| OCCU 615 | Adaptations \& Assistive Technology | 3 |
| OCCU 615L | Adaptations \& Assistive Technology Lab | 0 |
|  | TOTAL 8 |  |


*QuEST requirement
\# Graduate Course that fulfills Undergraduate Requirements (total of 25 credits)
Total UG Credits: 98-99 (dependent on the non-western course)
Total GR Credits Applied to the Undergraduate Degree: 25
Total Credits in the BS in Psych (Pre-OT) degree 123-124
Unique GR Credits: 55
Total Credits: 178-179 total credits
(total credits required if both degrees are completed: 203)

## 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 | 1st language* | 3 | varies | $2^{\text {nd }}$ language* | 3 |
| COMM 105 | Oral Communication* | 3 | SOCl 101 | Principles of Sociology | 3 |
| IDFY 101 | First Year Seminar* | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16 | 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 ( $1^{\text {st }}$ or $2^{\text {nd }}$ 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 |
|  |  |  |  |  |  |
| Junior - Fall TOTAL 16 |  |  | TOTAL 16 |  |  |
|  |  |  | 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 | SOWK 356 | Engaging Diversity and Inequality | 3 |
| PHILRELI XXX | Philosophy/Religion* | 3 | ART/MUSI | Arts* | 3 |
| THEO XXX | Christian Beliefs | 3 |  | Free Elective | (3) |
|  | Free Elective | (3) |  | Free Elective | (3) |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Senior - Fall TOTAL 16 |  |  | TOTAL 15 |  |  |
|  |  |  | 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. |  |  |
| $\begin{aligned} & \text { ECON } \\ & 110 / 117 / 120 \end{aligned}$ | One of the listed economic courses | 3 |  |  |  |
| WELL XXX | Wellness Course | 1 |  |  |  |
|  | Free Elective | 3 |  |  |  |
|  | Free Elective | 3 |  |  |  |
|  | TOTAL | 15 |  |  | 15 |
| *QuEST 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* (1st year) | 3-4 |
| SOWK 120 | Introduction to Social Work | 3 | Varies | $2^{\text {nd }}$ language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| PSYC 101 | Introduction to Psychology* | 3 | SOCI 101 | Principles of Sociology | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 15 |  | TOTAL | 15-16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| LANG XXX | $3^{\text {rd }}$ language or Cross Cultural* $2^{\text {nd }}$ or $3^{\text {rd }}$ year) | 3 | Varies | Mathematical Science* (1st year) | 3 |
| HIST 142 | U.S. History Survey Since 1865* | 3 | PHIL/RELI xxx | Philosophy/Religion* (1st or $2^{\text {nd }}$ year) | 3 |
| BIBL 20X | Knowledge of the Bible* (2nd - an $^{\text {th }}$ 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* (1st or ${ }^{\text {nd }}$ year) | 3 |
| SOWK 382 | Topics in Social Work | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL 16 |  | 16 | TOTAL |  | 16 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| THEO 2xx | Christian Beliefs* (2 ${ }^{\text {nd }}$ or 3 ${ }^{\text {rd }}$ year) | 3 | $V$ Varies Art, Music, Theatre or Dance* (1st or $2^{\text {nd }}$ year) |  | 3 |
| IDST xxx | Science, Tech, \& World* (3rd or 4th year) | 3 | SOWK 356 | Engaging Diversity and Inequality | 3 |
| SOWK 372 <br> Varies | Social Work Practice w/Groups OR Social Science elective | 3-4 | SOWK 420 | Social Welfare Policies | 3 |
| SOWK 385 | Introduction to Research in Social Work | 3 |  | Free elective | 3 |
|  |  |  |  | Free elective | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL 12-13 |  |  | TOTAL |  | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| IDNW xxx | Non-Western Studies* (2 ${ }^{\text {nd }}$ or $3^{\text {rd }}$ year) | 2-3 | IDS xxx | Ethics/Pluralism/World Views* (3rd or $4^{\text {th }}$ year) | 3 |
| WELL xxx | Wellness activity* (1st or ${ }^{\text {nd }}$ 年 year) | 1 | $\begin{aligned} & \text { INTE } 391 \text { or } \\ & 394 \end{aligned}$ | 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. SOCIOLOGY

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## Guidelines for Mathematical Sciences Courses

There is no specific math course required for Sociology majors. We recommend students enroll in MATH 101, MATH 102, MATH 107, or CIS 171 in their first year, unless you have had a pre-calculus course; then you should consider STAT 269 (usually taken in the second or third year). 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. 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

## Sociology (B.A.)

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall |  |  | First Year - Spring |  |  |
| COMM 105 | Oral Communication* | 3 | varies | $2^{\text {nd }}$ language* (1st or $2^{\text {nd }} \mathrm{yr}$ ) | 3 |
| IDFY 101 | First Year Seminar* | 3 | IDCR 151 | Created and Called for Community* | 3 |
| varies | $1{ }^{\text {st }}$ language* | 3 | varies | Laboratory Science* ( sts $^{\text {y }}$ year) | 3-4 |
| MATH/CIS/STAT | Mathematical Sciences* (1st year) | 3-4 | PHIL/RELI xxx | Philosophy/Religion* (1st or 2nd ${ }^{\text {nd }}$ yr) | 3 |
| $\begin{aligned} & \text { SOCI } 101 \text { OR } \\ & \text { SOCI } 212 \end{aligned}$ | Principles of Sociology (Fall or Spring) Cultural Anthropology (Fall or Spring) | 3 | $\begin{aligned} & \text { SOCI } 101 \text { OR } \\ & \text { SOCI } 212 \end{aligned}$ | Principles of Sociology (Fall or Spring) Cultural Anthropology (Fall or Spring) | 3 |
|  | TOTAL | 15-16 |  | TOTAL | 15-16 |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| varies | $3{ }^{\text {rd }}$ lang or Cross Cultural* ( $2^{\text {nd }}$ or 3 rd yr ) | 3 | varies | Arts* ( ${ }^{\text {st }}$ or $2^{\text {nd }} \mathrm{yr}$ ) | 3 |
| HIST xxx | History* ( $1^{\text {st }}$ or $2^{\text {nd }} \mathrm{yr}$ ) | 3 | BIBL 20x | Knowledge of the Bible* ( $1^{\text {st }}$ or $2^{\text {nd }} \mathrm{yr}$ ) | 3 |
| WELL xxx | Wellness* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 1 | SOCI 281 | Qualitative Research Methods** | 3 |
| SOCl 271 | Quantitative Research Methods \& Stats** | 3 | SOCl 335 | Social Conflict, Justice \& Peacemaking** | 3 |
| SOCl 331 | Sociocultural Theory | 3 | Varies | Free elective or minor | 3 |
| Varies | Free elective or minor | 3 |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 15 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ENGL xxx | Literature* ( $1^{\text {st }}$ or $2^{\text {nd }} \mathrm{yr}$ ) | 3 | THEO 2xx | Christian Beliefs* (2 ${ }^{\text {nd }}$ or 3 ${ }^{\text {rd }}$ year) | 3 |
| SOCl 356 | Social Inequality** | 3 | IDST xxx | Science, Tech \& World * (3rd or $4^{\text {th }} \mathrm{yr}$ ) | 3 |
| Varies | Concentration elective | 3 | Varies | Concentration elective | 3 |
| Varies | Free elective or minor | 3 | Varies | Concentration elective | 3 |
| Varies | Free elective or minor | 3 | Varies | Free elective or minor | 3 |
|  |  |  | Varies | Free elective or minor | 3 |
|  | TOTAL | 15 |  | TOTAL | 18 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| SOCI 442 | Senior Thesis | 3 | Varies | Concentration elective | 3 |
| Varies | Concentration elective | 3 | INTE 391 | Internship | 3 |
| Varies | Concentration elective | 3 | Varies | Concentration elective | 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 | 15 |  | TOTAL | 15 |

## Sustainability Studies (Community Development) (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 | varies | $2^{\text {nd }}$ Language* | 3 |
| PHIL 10x | Philosophy/Religion* | 3 | STAT 269 | Statistics or Quest mathematics | 3-4 |
| SUST 140 | Ecology \& Sustainability** (meets lab sci) | 3 | SOCl 212 | Cultural Anthropology (meets NW) | 3 |
| varies | 1 st Language course* | 3 | HIST 1xx | History* | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 15-16 |
| Sophomore - Fall |  |  | Sophomore - Spring |  |  |
| varies | 3rd Language or Cross-Cultural | 3 | varies | Art/Music/Theatre* | 3 |
| BIBL 20x | Knowledge of the Bible* | 3 | WELL 1xx | Wellness Course | 1 |
| Varies | Major elective (ECON 117, POLI 113, BIOL 274, SOCI 315 or STAT 269) | 3 | GIS 245 | Intro to Geog Infor System (alt year) or Major elective (ECON 117, POLI 113, BIOL 274, SOCI 315 or STAT 269) | 3 |
| ENVS 216 | Environmental Issues (meets STW) | 3 | Varies | Concentration elective | 3 |
| varies | Research Methods course | 3 | ENGL 1xx | Literature* (suggested: 174) | 3 |
|  |  |  | Varies | Minor or free elective | 2-3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 15-16 |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ENVS 315 | Environmental Ethics (meets Ethics) | 3 | SOCI 310 | Food, Power and Society (meets social sci) | 3 |
| Varies | Concentration elective | 3 | Varies | Concentration elective | 3 |
| Varies Varies THEO/RELI | Concentration elective Concentration elective Christian Beliefs | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ | GIS 245 | Intro to Geo Info System (alt year) or major elective (ECON 117, POLI 113, BIOL 274, SOCl 315 or STAT 269) | 3 |
| varies | Minor or free elective | 3 | Varies | Concentration elective | 3 |
|  |  |  | varies | Minor or free elective | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 18 |  | TOTAL | 15 |
| Senior - Fall |  |  | Senior - Spring |  |  |
| varies | Minor or free elective or study abroad | 3 | SUST 495 | Capstone Sustainability | 3 |
| varies | Minor or free elective or study abroad | 3 | INTE 391 | Internship | 3 |
| varies | Minor or free elective or study abroad | 3 | varies | Minor or free elective | 3 |
| varies | Minor or free elective or study abroad | 3 | varies | Minor or free elective | 3 |
| varies | Minor or free elective or study abroad | 3 | varies | Minor or free elective | 3 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 15 |  | TOTAL | 15 |

ECON 117 and GIS 245 alternate years but BOTH occur in the same spring).
This does not include your AuSable Institute options of BIOLIAGRICIGEOG 303- Tropical Agriculture which meets in May term in Costa Rica or BIOLIAGRICIGEOG 343 International Development and Environmental Sustainability which meets in Washington State mid-July through Mid August. Financial Aid deadlines for these courses are $12 / 15$ of the winter before, $2 / 15$ and $3 / 15$ of the course year.

## 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 2019 The department has a 3-year rotation of courses)


NOTE: Dance majors need $24-28$ free electives to meet the required 122 credits to graduate. A minor or second major is encouraged.

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

8 Semester Plan
(Applies to students entering in 2019. The department has a 3-year rotation of courses)

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall 2019 |  |  | First Year - Spring 2020 |  |  |
| IDFY 101 | First Year Seminar* | 3 | Varies | $1{ }^{\text {st }}$ language* | 3 |
| Varies | Philosophy/Religion* (1st or 2 ${ }^{\text {nd }}$ year) | 3 | IDCR 151 | Created and Called for Community* | 3 |
| Varies | Mathematical Science* (1st year) | 3 | MUAP 111 | Applied Voice | 1 |
| THEA 120 | Acting I | 3 | THEA 223 | Acting II | 3 |
| THEA 115 | Production Practicum | 1 | DANC 201 | Ballet II | 1 |
| DANC 101 | Ballet I | 1 | THEA 260 | Musical Theatre | 3 |
| MUAP 111 | Applied Voice | 1 | MUEN | Music Ensemble | . 5 |
| SOCI/HIST | 1 st Social Science, History* (1st or ${ }^{\text {nd }}$ yr) | 3 | MUGE 101 | Fundamentals of Music Theory | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 18 |  | TOTAL | 17.5 |
| Sophomore - Fall 2020 |  |  | Sophomore - Spring 2021 |  |  |
| Varies | $2^{\text {nd }}$ language* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 | Varies | $33^{\text {rd }}$ language or Cross Cultural* ( $2^{\text {nd }}$ or $3^{\text {rd }}$ year) | 3 |
| DANC xxx | Dance Technique I (Tap or Modern) | 1 | BIBL 20X | Knowledge of the Bible* (1 ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| THEA 115 | Production Practicum | 1 | DANC xxx | Dance Technique II (Tap or Modern) | 1 |
| Varies | $2^{\text {nd }}$ Social Science, History** (1st or 2nd year) | 3 | THEA 341 | History of Theatre II | 3 |
| IDNW xxx | Non-Western Studies | 2-3 | THEA 323 | Acting III | 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 | MUAP | Applied Piano / Keyboard | 1-2 |
|  |  |  | MUEN | Music Ensemble | . 5 |
|  |  |  |  |  |  |
|  | TOTAL | 16-17 |  | TOTAL | 16.5-17.5 |
| Junior - Fall 2021 |  |  | Junior - Spring 2022 |  |  |
| THEA 115 | Production Practicum | 1 | THEA 115 | Production Practicum | 1 |
| THEA 150 | Introduction to Tech \& Design | 3 | THEA 230 | Directing I | 3 |
| DANC xxx | Dance technique I | 1 | Varies | Laboratory Science | 3-4 |
| THEA 240 | Survey of Lit. and Crit. | 3 | THEA 325 | Acting 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 | DANC 404 | Choreography | 2 |
| THEA 423 | Acting IV | 3 | THEA 260 or 460 | Musical Theatre or Advanced Musical Theatre | 3 |
|  |  |  |  |  |  |
| TOTAL 14.5-15.5 |  |  |  | TOTAL | 17-18 |
| Senior - Fall 2022 |  |  | Senior - Spring 2023 |  |  |
| IDST xxx | Science, Tech, \& World* (3rd or $4^{\text {th }}$ year) | 3 | IDS xxx | Ethics/Pluralism/World Views* (3rd/4th yr) | 3 |
| THEA 115 | Production Practicum | 1 | THEA 260 | Musical Theatre | 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 | MUEN | Music Ensemble | . 5 |
| DANC xxx | Dance Technique | 1 | MUED 251 | Conducting I | 2 |
| THEA 470 | Senior Capstone Practicum | 3 | THEA 470 | Senior Capstone Project | 3 |
| THEO 2xx | Christian Beliefs | 3 | THEA 260 or THEA 460 | Musical Theatre or Advanced Musical Theatre | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 18 |  | TOTAL | 16.5 |
| *QuEST requirement |  |  |  |  |  |

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

## Theatre (B.A.)

## 8 Semester Plan

(Applies to students entering in 2019. The department has a 3-year rotation of courses)

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall 2019 |  |  | First Year - Spring 2020 |  |  |
| IDFY 101 | First Year Seminar* | 3 | Varies | 1 st language* | 3 |
| PHIL/RELI $x x x$ | Philosophy/Religion* (1st or 2nd year) | 3 | IDCR 151 | Created and Called for Community* | 3 |
| Varies | Mathematical Science* (1st year) | 3 | BIO/CHEM | Laboratory Science* (1st year) | 3-4 |
| THEA 115 | Production Practicum | 1 | THEA 115 | Production Practicum | 1 |
| THEA 150 | Introduction to Tech and Design | 3 | THEA xxx | Theatre emphasis course | 3 |
| THEA 120 | Acting I | 3 |  |  |  |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 13-14 |
| Sophomore - Fall 2020 |  |  | Sophomore - Spring 2021 |  |  |
| varies | $2^{\text {nd }}$ language** ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 | Varies | $33^{\text {rd }}$ language or Cross Cultural ${ }^{*}$ (2nd or 3 ${ }^{\text {rd }}$ year) | 3 |
| THEA 115 | Production Practicum | 1 | BIBL 20X | Knowledge of the Bible* (1st or ${ }^{\text {nd }}$ year) | 3 |
| THEA xxx | Theatre emphasis course | 3 | WELL xxx | Wellness Course* ( ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 1 |
| IDNW xxx | Non-Western Studies | 2-3 | THEA 115 | Production Practicum | 1 |
| varies | electives | 3-6 | THEA xxx | Theatre emphasis course | 3 |
|  |  |  | varies | electives | 3-6 |
|  |  |  |  |  |  |
| TOTAL |  | 12-16 |  | TOTAL | 14-17 |
| Junior - Fall 2021 |  |  | Junior - Spring 2022 |  |  |
|  |  |  | THEO 2XX | Christian Beliefs* (2 ${ }^{\text {nd }}$ or 3 ${ }^{\text {rdd }}$ year) | 3 |
| SOCI/HIST | $1{ }^{\text {st }}$ Social Science, History* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 | SOCI/HIST | $2^{\text {nd }}$ Social Science, History** (1st or $2^{\text {nd }}$ year) | 3 |
| THEA 115 | Production Practicum | 1 | THEA 115 | Production Practicum | 1 |
| THEA 240 | Survey of Dramatic Lit and Crit | 3 | THEA xxx | Theatre emphasis course | 3 |
| varies | electives | 3-6 | varies | Literature* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| THEA $x x x$ | Theatre emphasis course | 3 | THEA 340 | History of Theatre I | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 13-16 |  | TOTAL | 16 |
| Senior - Fall 2022 |  |  | Senior - Spring 2023 |  |  |
| IDST xxx | Science, Tech, \& World* (3rd or 4th year) | 3 | IDS xxx | Ethics/Pluralism/World Views* (3rd or $4^{\text {th }}$ year) | 3 |
| THEA 115 | Production Practicum | 1 | THEA 115 | Production Practicum | 1 |
| THEA 470 | Theatre Capstone Seminar | 3 | THEA xxx | Theatre emphasis course | 3 |
| THEA 475 | Theatre Capstone Project | 1-3 | THEA 475 | Theatre Capstone Project | 1-3 |
| Varies | Free electives | 4-6 | Varies | Free electives | 3-5 |
|  |  |  | THEA 341 | History of Theatre II | 3 |
|  | TOTAL | 12-16 |  | TOTAL | 15-18 |

- A minimum of 9 credits at a department approved enrichment institution or 9 credits of theatre or dance electives is needed.
- Acting Emphasis students need 2 credits of dance technique and 2 credit of applied voice lessons
- Directing and Technical \& Design emphasis courses are all spring term courses
- 123 credits are needed to graduate.


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

| Course \# | Course name | Credits | Course \# | Course name | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| First Year - Fall 2018 |  |  | First Year - Spring 2019 |  |  |
| IDFY 101 | First Year Seminar | 3 | varies | $2^{\text {nd }}$ language* | 3 |
| CIS 180 | Introduction to Computer \& Info. Science | 3 | IDCR 151 | Created and Called for Community* | 3 |
| Varies | 1 st language* | 3 | DIGM 101 | Foundations in Creative Digital Media | 3 |
| COMM 203 | Basic Video and Editing | 3 | THEA 115 | Production Practicum | 1 |
| ART $x x x$ | Art Foundation (171, 182, 211, 251, 282) | 3 | IDNW 200 | Latin American Cinema (ARTH 210, IDNW 321) | 3 |
|  |  |  | CIS 181 | Computer Programming I | 3 |
|  |  |  |  |  |  |
|  | TOTAL | 15 | TOTAL |  | 16-17 |
| Sophomore - Fall 2019 |  |  | Sophomore - Spring 2020 |  |  |
| varies | 3 rrd language or Cross Cultural* | 3 | BIO/CHEM | Laboratory Science* | 3-4 |
| COMM 217 | Introduction to Film | 3 | BIBL 20X | Knowledge of the Bible* (1 ${ }^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 |
| THEA 150 | Intro. to Tech. Production \& Design | 3 | WELL xxx | Wellness Course* (1st or 2nd year) | 1 |
| ART 236/237 | Graphic Design/Typography | 3 | CIS 191 | Web Development: Client | 3 |
| ENGL xxx | Literature* (1st or $2^{\text {nd }}$ year) | 3 | MUCM 353 | Sound Design | 3 |
| DIGM 201 | Video and Church Media Seminar | 1 | COMM 107 | Fundamentals of Oral Communication | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 16 | TOTAL |  | 16 |
| Junior - Fall 2020 |  |  | Junior - Spring 2021 |  |  |
| THEO 2xx | Christian Beliefs* (2 ${ }^{\text {nd }}$ or 3 ${ }^{\text {rd }}$ year) | 3 | SOCI/HIST | $2^{\text {nd }}$ Social Science, History ${ }^{*}$ (19t or $2^{\text {nd }}$ year) | 3 |
| SOCI/HIST | $1{ }^{\text {st }}$ Social Science, History* ( $1^{\text {st }}$ or $2^{\text {nd }}$ year) | 3 | CHRM 210 | Theology of Ministry | 3 |
| THEA 115 | Production Practicum | 1 | COMM 382 | History and Theory of Digital Media | 3 |
| ART xxx | 336/338/431 | 3 | THEA 250/350 | Stage Manage./Scenographic Tech. | 3 |
| Varies | Free Electives | 6 | Varies | Philosophy/Religion | 3 |
| DIGM 202 | Game and Art Design Seminar | 1 | THEA 115 | Production Practicum | 1 |
| TOTAL 17 |  |  | TOTAL |  | 16 |
| Senior - Fall 2021 |  |  | Senior - Spring 2022 |  |  |
| Varies | Science, Tech, \& World** (3rd or $4^{\text {th }}$ year) | 3 | Varies | Ethics/Pluralism/World Views* (3 ${ }^{\text {rd }}$ or $4^{\text {th }}$ year) | 3 |
| DIGM 490 | Senior Seminar and Project | 4 | THEA 250/350 | Stage Manage./Scenographic Tech. | 3 |
| Varies | Free Electives | 6 | Varies | DIGM Elective | 3 |
| Varies | DIGM Elective | 3 | Varies | Free Electives | 6 |
|  |  |  |  |  |  |
|  | TOTAL | 16 |  | TOTAL | 15 |

## III. Art and Design

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## Sophomore Review

All Studio Art and Art Education majors are required to go through the sophomore review, including transfer students new to the major and/or new to the College. Students in the BA studio program and Art Education majors typically go through the review during their fourth semester if they start as a first year student in the major. Students cannot put off the review if they are on campus. If the student is not on campus during that semester they must go through review in their 5th semester. Transfer students to the major must accumulate 9 studio credits 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 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). B.A. and B.S. students are limited to approximately 12 pieces, and prepare a 10-12minute discussion with the panel. No work from high school may be included in this review. B.F.A. students may show up to 15 pieces, and prepare for 15 minutes with the panel.

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 plan

## 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 | Oral Communication*^ | 3 | IDCR 151 | Created and Called for Community* | 3 |
| IDFY 101 | First Year Seminar*^ | 3 | Varies | Mathematical/Computer Sciences*^ | 3 |
| Varies | Mathematical/Computer Sciences*^ | 3 | ART 182 | Color and Design | 3 |
| ART 110 | Visual Thinking and Digital Tools | 3 | ART 282 | Form, Space, and Media | 3 |
| ART 171 | Foundations of Drawing | 3 | ARTH 111 | Intro to Art History | 3 |
|  |  |  | Clearances must be completed. |  |  |
|  |  |  | TOTAL |  |  |
| TOTAL |  | 15 |  |  | 15 |
|  |  |  |  |  |  |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |
| ENGL 1xx | Literature*^ (122-176) | 3 | PHIL/REL | Philosophy/Religion* | 3 |
| ART 201 | Introduction to Art Education | 1 | BIBL xxx | Knowledge of the Bible* | 3 |
| EDUC 203 | >Education Psychology^ | 3 | EDUC 346 | Sociocultural Perspectives on Education | 3 |
| EDSP 207 | >Introduction to Special Education^ | 3 | ARTH 150/151 | Art History | 3 |
| TEP 210 | >Field Experience^ | 0 | ART xxx | Studio Art Concentration 2 | 3 |
| ART xxx | Studio Art Concentration 1 | 3 | ART xxx | Studio Art Cross Concentration 1:2 | 3 |
| ART $x$ xx | Studio Cross Concentration 1:1 | 3 |  |  |  |
|  |  |  | March $1^{\text {st }}$ - Application due for educ. program. <br> April - Must have completed or in the process of completing required educ. block of courses to register for restricted courses. |  |  |
| TOTAL |  | 16 | TOTAL |  | 18 |
|  |  |  |  |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| ART 331 | Art Instructional Design \& Assessment | 3 | varies | Language $1^{*}$ | 3 |
| ART 355/356 | Elementary/Secondary Curr. Strategies | 3 | BIO/CHEM | Laboratory Science/STW | 3 |
| ARTH 209/309 | History of Modern Art/Contemporary Art | 3 | EDSP 307 | > Inclusion Practices | 3 |
| WELL1xx | Wellness course* | 1 | EDUC 308 | >Instruct. \& Assess. English Lang. Learners | 3 |
| ART xxx | Studio Art Concentration 3 | 3 | TEP 310 | >Field Experience | 0 |
| ART xxx | Studio Cross Concentration 2:1 | 3 | ART xxx | Studio Art Concentration 4 | 3 |
|  |  |  | ARTxxx | Studio Cross Concentration 2:2 | 3 |
| Nov. $1^{\text {st }}$ - Application due for professional semester. |  |  |  |  |  |
| TOTAL 16 |  |  | TOTAL |  | 18 |
|  |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
| varies | Language 2* | 3 | THEO 2xx | Christian Beliefs* (J-Term) | 3 |
| ARTH 210 | Topics in Non-Western Art | 3 | TEP 407 | Student Teaching Seminar | 1 |
| TEP 412 | Pre-Student Teaching Experience in Art | 0 | TEP 437 | Student Teaching | 9 |
| ART 355/356 | Elementary/Secondary Curr. Strategies | 3 |  |  |  |
| ART 48x | Advanced Studio Art | 3 |  |  |  |
| ART 493 | Art Seminar | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 15 |  | TOTAL | 13 |

[^5]
## Graphic Design (B.F.A.) <br> 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* (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 Design |  | 3 |
| ART 171 | Foundations of Drawing | 3 | ARTH 111 | Art Historical Methods and Theories |  | 3 |
|  |  |  |  |  |  |  |
| TOTAL |  | 15-16 | TOTAL |  |  | 15-16 |
|  |  |  |  |  |  |  |
| Sophomore -Fall |  |  | Sophomore - Spring |  |  |  |
| varies | Langauge 2* | 3 | varies | 2D or 3D studio (J-Term) |  | 3 |
| ARTH 209/309 | History of Modern Art/Contemporary Art | 3 | varies | Language 3 or Cross Cultural* |  | 3 |
| ART 205 | Design History and Theory | 3 | BIBL xxx | Knowledge of the Bible* |  | 3 |
| ART 282 | Form, Space, and Media | 3 | Varies | Design Course |  | 3 |
| ART 237 | Typography and Visual Communication | 3 | Varies | 2D or 3D studio |  | 3 |
|  |  |  | Varies | Philosophy \& Religion |  | 3 |
|  |  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  |  | 18 |
|  |  |  |  |  |  |  |
| 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 | 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 | $2^{\text {nd }}$ Social Science or History* | 3 | IDS xxx | Ethics/Pluralism/World Views* |  | 3 |
| ART 483 | Graphic Design Capstone | 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

## Studio Art (B.A.) <br> 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 1 1 x | Wellness course* |  | 1 |
| ART 171 | Foundations of Drawing | 3 | ART 182 | Color and Design |  | 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 Cultura** |  | 3 |
| varies | Literature | 3 | BIBL $x x x$ | Knowledge of the Bible* |  | 3 |
| PHIL/REL | Philosophy/Religion* | 3 | ARTH 150/151 | Art History |  | 3 |
| ART 282 | Form, Space, and Media | 3 | ART xxx | Studio Art Concentration Studies 2 |  | 3 |
| ARTxxx | Studio Art Concentration Studies I | 3 | ART xxx | Studio Art Cross Concentration 1 |  | 3 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  |  | 15 |
| Junior - Fall |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| IDST XXX | Science, Technology and the World | 3 | THEO 2XX Christian Beliefs** ${ }^{*}$ Spring |  |  | 3 |
| varies | ${ }^{\text {sts }}$ Social Science or History* | 3 | varies | $2^{\text {nd }}$ 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 |  |  | 12 |

*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 Design | 3 |
| ART 171 | Foundations of Drawing | 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 1:1 (J-Term) | 3 |
| varies | Literature | 3 | varies | Language 3 or Cross Cultural* | 3 |
| ARTH 150 | Art History 1 | 3 | BIBL 20x | Knowledge of the Bible* | 3 |
| ART 282 | Form, Space and Media | 3 | ARTH 151 | Art History II | 3 |
| ART xx | Studio Art Concentration Studies I | 3 | ART xxx | Studio Art Concentration Studies 2 | 3 |
|  |  |  | ART xxx | Studio Art Cross Concentration 1:2 | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 15 | TOTAL |  | 18 |
|  |  |  |  |  |  |
| Junior - Fall |  |  | Junior - Spring |  |  |
| PHIL 10x | Philosophy/Religion* | 3 | ARTxxx | Studio Art Cross Concentration 2:1 (J-Term) | 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 | 3 | ARTH 210 | Topics in Non-Western Art | 3 |
| ART xxx | Studio Art Cross Concentration 1:3 | 3 | ART xxx | Studio Art Concentration Studies 4 | 3 |
|  |  |  | ART xxx | Studio Art Concentration Studies 5 | 3 |
|  |  |  |  |  |  |
| TOTAL |  | 16 | TOTAL |  | 18 |
|  |  |  |  |  |  |
| Senior - Fall |  |  | Senior - Spring |  |  |
| varies | $2^{\text {nd }}$ 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 | 3 |
| ART $x x x$ | Studio Art Concentration Studies 6 | 3 | ART xxx | Studio Art Elective | 3 |
| ART xxx | Studio Art Cross Concentration 2:2 | 3 |  |  |  |
|  |  |  |  |  |  |
| TOTAL |  | 16 |  | TOTAL | 15 |

*QuEST requirement

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


*QuEST requirement

## 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.
- 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 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. 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/22286/eli_experiences/3118/eli_internshippracticum_options
- ELI advisors for this experience include CPDC staff for internships and faculty supervising ELIapproved practica.


## Service Learning

- Beginning in 2016-2017, all officially-designated service learning courses will have been revised to incorporate ELI components, thereby meeting the ELI requirement.
- Faculty who wish to teach a service learning experience must complete the ELI Service Learning Proposal Form at https://www.messiah.edu/info/22286/eli_experiences/3117/eli_service_learning_options
- ELI advisors for this experience include faculty teaching ELI-approved service learning courses.


## Off-Campus Programs

- All experiences through the Intercultural Office have been updated to include the ELI components, thereby meeting the ELI requirement when the student successfully completes the embedded ELI requirements.
- ELI advisors for this experience include Intercultural Office staff and faculty overseeing crosscultural courses.
- More information about options in this area appear at https://www.messiah.edu/info/20698/offcampus programs/3116/eli off-campus program information


## Leadership

- Approximately 160 leadership positions (but not all leadership positions) have incorporated the ELI components, and therefore meet the ELI requirement.
- Students can find the list of pre-approved positions at https://www.messiah.edu/info/20885/student_involvement_and_leadership_programs/3119/eli_le adership options. Instructions for registering for an ELI leadership experience are included.
- 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.
- 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/22286/eli_experiences/3258/eli_options_for_undergraduate_resear ch.
- ELI advisors for this experience include faculty supervising ELI-approved research.
- Departments may offer optional ELI research experiences; contact chair to determine whether options exist in major.


## 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 | No additional steps needed beyond course registration for appropriate practica, which must have been previously approved. <br> Currently approved options within specific departments appear on page 5. |
| Leadership* | Embedded | Yes - varies | Register for ELIR 020 in spring of year in which leadership complete. (Permission of advisory team co-chairs required.) <br> 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.) <br> Currently approved options within specific departments appear on page 5 . |
| Service-Learning* | Embedded | No | No additional steps needed beyond course registration |

*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. STUDENT FINANCIAL AID

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## The Messiah University Financial Aid Office

Messiah University has realigned Financial Aid and Student Account functions in order to maximize service delivery to students, streamline process and eliminate redundancies.

- Student Financial Services (SFS) in the first floor of Old Main administers the customer service and counseling driven functions. The Student Financial Services Office is open Monday through Friday, 8:00 a.m. to 5:00 p.m.

Our mission is to provide information, counseling, and financial services to help students, their families and their sponsors successfully navigate the financial maze encountered when obtaining a college education. Our employees serve as advisors, problem-solvers, advocates and educators, acting at all times fairly, compassionately and with the highest standards of ethical behavior and fiscal accountability.

## Our Student Account Coordinators and Counselors are charged to:

- Connect students to the resources they need to take full advantage of the Messiah experience
- Ensure that the student has a successful administrative experience at Messiah University
- Assist students and their families develop a strategy for managing the costs and challenges presented from act of pursuing a college education
- Anticipate student needs with proactive steps and structures

We are your source for answers regarding bills, payments, financial aid, refunds, parking, and University ID cards. Please contact us at studentfinsvcs@messiah.edu or 717-6916004 if you have any questions.

- Financial Aid Office (basement of Old Main) provides back office leadership and financial aid processing, as well as ensuring that the University complies with Government regulations and institutional policy. The Financial Aid Office is open Monday through Friday 8:30 a.m. to 4:30 p.m. http://www.messiah.edu/info/21314/financial aid for undergraduate programs

Financial Aid Office<br>Messiah University<br>One University Avenue Suite 3006<br>Mechanicsburg PA 17055<br>Phone: 717.691 .6007 (ext. 6007)<br>finaid@messiah.edu

The Messiah University Financial Aid Office mission is to serve students, parents, our Messiah University colleagues and the community by providing information and services to enable students to attain the funding necessary to realize their educational goals.

Both offices are prepared for consultation with students and their parents planning to finance a college education. Messiah University offers merit-based academic scholarship programs, grants and scholarships based on a combination of merit and need, and tuition discounts. Assistance is also available through
federal, state, and private funds administered by the University in the form of grants, loans, and work study.

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

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 2018-19) (Please note that you will see students with different amounts than these because award amounts change from year to year.)

| SCH0LARSHIP NAME | ANNUAL AMOUNTS | RENEWAL CRITERIA | $\begin{array}{llllllll}\mathbf{C} & \mathbf{O} & \mathbf{M} & \mathbf{M} & \mathbf{E} & \mathbf{N} & \mathbf{T} & \mathbf{S}\end{array}$ |
| :---: | :---: | :---: | :---: |
| Trustees' Scholarship | Full tuition in student's $1^{\text {st }}$ year | Students must earn a 3.3 GPA (1 $1^{\text {st }}$ yr ) and a 3.6 GPA each following academic year. This GPA requirement can be met with either the yearly or cum GPA, but once the student loses the scholarship, it cannot be regained by improving either GPA. |  |
| President's Scholarship | \$5,000 | Students must earn a 3.2 GPA ( $1^{\text {st }}$ yr ) and a 3.4 GPA each following academic year. This GPA requirement can be met with either the yearly or cum GPA, but once the student loses the scholarship, it cannot be regained by improving either GPA. | New students are now awarded $\$ 5,000$ and can keep their Provost's Scholarship in combination with their President's Scholarship. Many upper class students will have the $\$ 20,000$ amount awarded in past years. |
| Provost's Scholarship | $\begin{aligned} & \$ 11,000- \\ & \$ 15,000 \end{aligned}$ | The following GPA requirement can now be met on a yearly basis or with the cum GPA: Students must earn a $2.8 \mathrm{GPA}\left(1^{\text {st }} \mathrm{yr}\right)$ and a 3.0 GPA each following academic year. | A student who loses a Provost's Scholarship can regain it in a future year by attending for a year without the scholarship and achieving the necessary GPA over the two semesters of that academic year. |
| Dean's Scholarships in Art, Dance, Music, Theatre, Humanities | Typically these range from \$1,000 to $\$ 2,500$, but can be higher | The various departments manage the renewal of these scholarships and have variations in their requirements. Check with the department for renewal criteria | Most departments have some sort of performance standard in addition to a GPA requirement. |


| Full Tuition Lloyd and Lois Martin Multicultural Scholarship | Full tuition in student's $1^{\text {st }}$ year | Students must earn a 2.5 GPA first year and a 3.0 GPA each following academic year. This GPA requirement can be met with either the yearly or cum GPA, but once the student loses the scholarship, it cannot be regained by improving either GPA. |  |
| :---: | :---: | :---: | :---: |
| Lloyd and Lois Martin Multicultural Scholarship (Martin's Scholar) | \$5,000 | Students must earn a 2.5 GPA first year and a 3.0 GPA each following academic year. This GPA requirement can be met with either the yearly or cum GPA, but once the student loses the scholarship, it cannot be regained by improving either GPA. | New students are now awarded 5,000 and can keep their Provost's Scholarship in combination with their Martin Scholarship. Many upper class students will have the $\$ 20,000$ amounts awarded in past years. |
| Amigo Scholarship | \$16,000 | Students must earn a 2.5 GPA first year and a 3.0 GPA each following academic year. This GPA requirement can be met with either the yearly or cum GPA, but once the student loses the scholarship, it cannot be regained by improving either GPA. | No new awards made for fall 2019, but some upper class students will have this. |
| Amigo Commendation | \$1,000 | Students must make regular satisfactory academic progress. |  |
| Faculty Scholarship | \$1,000 | Students must earn a 3.2 GPA ( $1^{\text {st }}$ yr ) and a 3.4 GPA each following academic year. This GPA requirement can be met with either the yearly or cum GPA, but once the student loses the scholarship, it cannot be regained by improving either GPA. | This program is a sub-set of the President's Scholarship program and has the same renewal criteria. |
| Flowers Scholarship | \$2,000 | Students must earn a 2.5 GPA first year and a 3.0 GPA each following academic year. This GPA requirement can be met with either the yearly or cum GPA, but once the student loses the scholarship, it cannot be regained by improving either GPA. | This program is a sub-set of the Martin Multicultural Scholarship program and has the same renewal criteria. |
| Messiah University Grant | $\begin{aligned} & \hline \$ 100- \\ & \$ 12,000 \end{aligned}$ | Students must make regular satisfactory academic progress and continue to have financial need. |  |


| Messiah University <br> Scholarship | $\$ 1,000-$ <br> $\$ 9,500$ | Students must make regular <br> satisfactory academic progress. | This amount varies quite a bit <br> depending on what year the <br> student started. Typical amounts <br> are $\$ 6,000$ to $\$ 9,500$. |
| :--- | :--- | :--- | :--- |
| Merit Scholarship <br> Recognition | $\$ 1,000$ | Students must make regular <br> satisfactory academic progress. | We are no longer participating in <br> the actual National Merit Scholar <br> program, but we continue to <br> recognize these students with a <br> strictly institutional award. |
| Covenant Scholarship | $\$ 500$ | Students must make regular <br> satisfactory academic progress. |  |

## Other Sources and Types of Financial Aid

- In addition to aid from Messiah University, many students also receive aid from the federal or state government, and/or private sources.
- 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. Most academic scholarships do have a GPA requirement for continuation of the scholarship. (See chart above).
3. The Provost's Scholarship can be regained in a future year if a student improves their yearly or cum GPA to the minimum required. There is no probationary semester for the Provost's Scholarship, but we will replace up to half of the lost scholarship with Messiah University Grant if the student has unmet financial need.
4. The Trustee's, President's, and full-tuition Martin's all have a probationary semester, but do NOT offer the opportunity to regain the scholarship after it has been lost.
5. Students can appeal loss of financial aid (either because of GPA for academic scholarships or loss of other aid because of 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.
- The Program Integrity Regulations issued October 29, 2010 (effective July 1, 2011) modified these requirements, meaning that a new SAP policy was in place starting with the 2011-2012 academic year.
Visit the Financial Aid Office polices webpage at: www.messiah.edu/info/21385/policies_and_resources
$\underline{\text { Choose the }}$ 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 Business (B.A.) No longer accepting students after Fall 2020.
Art Education (K-12) (B.S.) with concentrations in:
Graphic Design and Digital Art
Three-Dimensional Studies
Two-Dimensional Studies
Art History (B.A.) No longer accepting students after Fall 2020.
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 and Religious Studies

Biblical and Religious Studies (B.A.) with concentrations in:
Bible
Religion
Theology
World Christianity
Christian Ministries (B.A.) with concentrations in:
Congregational Ministries
Cross-Cultural Ministries
Youth Ministries

## Biological Sciences

Biology (B.S.) with concentrations in:
Biomedical
Cellular
Ecological
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
Human Resource Management
Leadership
Technology and Operations Management
Economic Development (B.A.)
Economics (B.A.)/(B.S.)
Finance (B.S.)
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 Media Production (B.A.)
Communication (B.A.)
Film and Media Arts (B.A.)
Journalism (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
Science
Social Studies
Math and English
Math and Social Studies
Science and English
Science and Math
Science and Social Studies
Special Education with Teaching Certification (N-12)

## Engineering

Engineering (B.S.E.) with concentrations in:
Biomedical
Civil
Computer
Electrical
Environmental
General
Mechanical
Biomedical Engineering (BSBME)
Civil Engineering (BSCE)
Electrical Engineering (BSEE)
Mechanical Engineering (BSME)

## English

English (B.A.) with concentrations in:
Creative Writing
Literature
Professional Writing
English with Secondary Teaching Certification (B.A.)

## 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

History (B.A.) with optional concentrations in:
Administrative Studies

American History
Classical and Medieval European History
Modern European History
Public History
World History
History with Secondary Social Studies Teaching Certification (B.A.)

## Human Development and Family Science

Family and Consumer Sciences Education (K-12) (B.S.)
Human Development and Family Science (B.A.)

## Modern Languages

Chinese Business (B.A.) No longer accepting students after Fall 2020.
Chinese Studies (B.A.)
Chinese Studies with K-12 Teaching Certification (B.A.)
French (B.A.) No longer accepting students after Fall 2020.
French with K-12 Teaching Certification (B.A.) No longer accepting students after Fall 2020.
Spanish (B.A.)
Spanish Business (B.A.) No longer accepting students after Fall 2020.
Spanish with K-12 Teaching Certification (B.A.)

## Music

Music Business (B.A.) No longer accepting students after Fall 2020.
Music (B.A.) with concentrations in:
Commercial Music
Composition
Music Education (K-12) (B.S.)
Music (Music and Worship) (B.A.)
Music Performance (B.M.)

## Nursing

Nursing (B.S.N.)

## Philosophy

Philosophy (B.A.)

## Politics and International Relations

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

## Psychology

Biopsychology (B.S.)
Psychology (B.A.) with optional concentration in Counseling
Psychology (B.S.)
Psychology (B.S.) with Pre-Occupational Therapy / Occupational Therapy MSOT

## 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

Ethnic and Area Studies (B.A.) No longer accepting students after Fall 2020. with concentrations in: African and African American Studies
Asian Studies
U.S. Ethnic Studies

Peace and Conflict Studies (B.A.)

## Social Work

Social Work (B.S.W.)

## Sociology

Sociology (B.A.) with concentrations in:
Anthropology
Criminology
Urban Studies
Sustainability Studies (B.A.) with Community Development concentration

## Theatre and Dance

Dance (B.A.)
Musical Theatre (B.F.A.)
Theatre (B.A.)
Theatre Business (B.A.) No longer accepting students after Fall 2020.

## 3+ Accelerated Bachelor's / Graduate Degree Collaborations

Politics (B.A.) /M.S. in Public Policy and Management) - Carnegie Mellon University
Applied Health Science (B.S.)/M.A.T. in Athletic Training - Messiah College
Applied Health Science (B.S.)/M.S.O.T in Occupational Therapy- Messiah College
Psychology (B.S.)/M.S.O.T. in Occupational Therapy- Messiah College

## Pre-Health and Professional Programs

Pre-Dental
Pre-Chiropracty
Pre-Forensic Science
Pre-Law
Pre-Medical (allopathic and osteopathic)
Pre-Occupational Therapy
Teacher Certification Programs
(Programs leading to certification in grades $\mathrm{K}-12$ and 7-12 are housed in their content-specific academic department)

Art Education (K-12)
Biology (7-12)
Chemistry (7-12)
Chinese (7-12)
Computer Science (7-12)
Education
PreK-4
PreK-4 \& Special Education PreK-8

Pre-Optometry
Pre-Pharmacy
Pre-Physical Therapy
Pre-Physician’s Assistant
Pre-Podiatry
Pre-Veterinary

Grades 4-8
Special Education (N-12)
TESOL
English (7-12)
Family \& Consumer Sciences (K-12)
Health and Physical Education (K-12)
Mathematics (7-12)
Music (K-12)

Physics (7-12)
Social Studies (7-12)

## Minors

| Art and Design Studio Art | Education |
| :---: | :---: |
|  | Early Childhood Education |
|  | Education |
|  | Socio-Cultural Perspectives on Education |
| Biblical and Religious Studies | Speech and Language Pathology |
| African-American Religion and Culture | Special Education |
| Bible | Teaching Engl. to Speakers of Other Lang. |
| Congregational Ministries |  |
| Cross Cultural Ministries | Engineering |
| Religion | Biomedical Engineering |
| Theology | Civil Engineering |
| World Christianity | Electrical Engineering |
| Youth Ministries | Environmental Engineering |
|  | Mechanical Engineering |
| Biological Sciences |  |
| Biology | English |
| Environmental Science | Creative Writing |
| Sustainability Studies | English |
| Business | Health, Nutrition and Exercise Science |
| Accounting | Foods and Nutrition |
| Business Administration | Health and Exercise Science |
| Economic Development | Sport Management |
| Economics |  |
| Finance | History |
| Human Resource Management | Classical, Medieval and Renaissance Studies |
| International Business | History |
| Leadership |  |
| Marketing | Human Development and Family Science Children \& Youth Services |
| Chemistry and Biochemistry | Disability and Family Wellness |
| Chemistry | Gerontology |
|  | Human Development and Family Science |
| Communication | Multicultural Families |
| Broadcasting and Media Production | Pre-Counseling and Therapy |
| Communication |  |
| Journalism | Modern Languages |
| Public Relations | Chinese Studies |
|  | French |
| Computing, Mathematics, and Physics | Spanish |
| Business Information Systems |  |
| Computer Science | Music |
| Mathematics | Music |
| Physics | Music and Worship |
| Statistics |  |
| Web Development | Philosophy Philosophy |

## School of the Humanities

Ethnic and Area Studies

## Politics and International Relations

Politics and International Relations
Pre-Law

## Psychology

Pre-Counseling and Therapy
Psychology

## Social Work

Human Services

## Sociology

Anthropology
Criminology
Gender Studies
Sociology
Urban Studies

## Theatre and Dance

Dance
Theatre

## School of Humanities

Digital and Public Humanities
Peace and Conflict Studies

## Certificates

Digital Marketing TESOL

## VI. ADVISING RESOURCES

## Advising Resources

This section provides a list of some of the advising resources for Messiah College 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 Service Learning

See http://www.messiah.edu/agape

## The Career and Professional Development Center

The Career Center and Internship Center provides information and resources for students as they explore their major and career options. For more information go to 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

## The Intercultural Office

Located in the Larsen Student Union, the Intercultural Office at Messiah College houses three distinct but interconnected areas: Off-Campus Programs, Multicultural Programs and International Student Programs. These equally important programs work in close collaboration to carry out the overall mission of the Intercultural Office: To embrace the diversity of the body of Christ by creating and providing safe, transformative learning environments and opportunities for students to engage the world as reconcilers and servant leaders at home and abroad. For more information, go to the Intercultural Office general webpage: http://www.messiah.edu/offices/intercultural/

## VII. ACADEMIC POLICIES

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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 College provides a variety of resources to students, including the Office of Disability Services, the Career Center for Vocation and Development, and the Engle Center for Health and Counseling.
Math Help. The Math Help Room offers free, walk-in peer tutors for help with problems in math, physics, and statistics courses. Hours are Monday - Thursday, 7-9 p.m. in Frey Hall room 367. For more information, contact Dr. Doug Phillippy.

Study Skills Courses. GEST 041 Foundational Study Skills is offered each semester and is mandatory for conditionally admitted first year students. GEST 043 Supplemental Study Skills is open to all students.

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

The Learning Center. The Learning Center (located in Murray Library) provides students with assistance in achieving and maintaining the level of academic proficiency necessary to be successful in Messiah College's rigorous intellectual environment. 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.
Supplemental Instruction (SI) is a program that targets "high risk courses" rather than "high risk students." The College 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..

Disability Services. Students with disabilities requiring accommodation in classes, programs, or services can arrange for adjustments through the Disability Services office. Students are required to selfidentify, present current documentation of eligibility (three years or newer) and specify needed accommodations. Following verification of eligibility, an accommodation profile is developed with the student. Faculty or staff needing to make accommodations are then notified of the student's eligibility and provided with a list of suggested accommodations. Students who think they may have a disability are encouraged to meet with the Director of Disability Services. All communication remains confidential. Contact: Ms. Amy Slody, ext. 7258. For more information refer to the "Students with Disabilities" tab.

Academic Progress Alert. 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 Progress Alert." This email communication will be sent to the student and copied to members of the campus community who have a confirmed relationship with the student (e.g., academic advisor, athletic coach, office mentor, residence director, etc.). 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 preprofessional preparation. B.S. requirements typically promote depth of preparation within a discipline and/or related disciplines.
Specialized Degrees. Messiah College may offer specialized degrees such as Bachelor of Science in Nursing (B.S.N.), Bachelor of Science in Engineering (B.S.E.), Bachelor of Fine Arts (B.F.A.) or Bachelor of Social Work (B.S.W.). Such specialized degrees will be treated as Bachelor of Science degrees.

Bachelor of Arts and Bachelor of Science for Same Discipline. Messiah College allows a department to apply to offer both a B.A. and a B.S. in the same discipline. When this occurs, appropriate distinctions must be made in the required curricula and the new program approved as a new major.
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 prescribed set of courses which focuses on a particular academic discipline. The goal is to allow the student to develop some depth of understanding in that discipline. Minors require 18 course credits with a maximum of 28 allowed. More details below under the Policy section.

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. The requirements for concentrations appear in the catalog. Concentrations will be included in official counts or lists of Messiah College majors and/or programs.

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 College. These violations include:

- Plagiarism: Submitting as one's own work part or all of any assignment (oral or written) which is copied, paraphrased, or purchased 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 College 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

## Regular Students

Students who are pursuing a degree program are regular students. Regular students are classified according to the following guidelines:
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

## Unclassified Students

Students who are not pursuing a degree program but are taking courses for their own special needs, are
unclassified students.

## Conditionally Admitted Students

Conditionally admitted students are those new students who have not met the regular entrance requirements but have been allowed to attend Messiah College. These students are required to register for a two-credit developmental Study Skills course and limited to 14 credits. Conditionally admitted students must meet the usual GPA levels for academic good standing, probation and suspension.

## Visiting Students

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

## Credit and Load

## Definition of Credit Hour

A credit hour is a unit of academic work consisting of fifty (50) minutes of lecture, 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 class time is required.

## Enrolled

A student shall be consider to be enrolled at Messiah College if as of the first day of class of the term s/he is registered for any credit-bearing course offered by Messiah College or by an off-campus program affiliated with Messiah College. A student shall be considered to be continuously enrolled if s/he is 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, unclassified, 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. Exceptions are made for students whose disabilities are confirmed by the Office of Disability Services as requiring consideration of this policy. ODS will recommend an adjusted standard of "full-time" for a particular student based on knowledge and documentation of the student's disability.

Note: Federal financial aid regulations require a college to define a full-time workload for a program in the same way for all students. Colleges can't accommodate a student with a learning disability or other handicap by allowing a full-time enrollment status lower than the minimum standard. As such, in order to maintain financial aid eligibility, all students must meet the standard of Satisfactory Academic Progress outlined elsewhere in this catalog and available in the Financial Aid Information Booklet at http://www.messiah.edu/offices/financial_aid/booklet/ booklets.html. This standard applies to all forms of financial aid, including institutional forms of financial aid.

## 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.

## 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. Additional tuition will be charged by the credit hour at the overload rate for each credit above 18 .

In the spring semester, any student taking more than 4 credits in the J-term or more than 15 credits in the Spring term must first obtain the approval of his/her advisor and the Registrar. Additional tuition will be charged by the credit hour at the overload rate for each credit above 18 ..

## Rationale:

The overload registration procedure has been instituted to insure that an assessment of the student's ability to handle an abnormally heavy load is made prior to the student enrollment in the courses.

## Advising

## General Guidelines

1. Personal student-faculty association provides the small college 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.
6. An advisee who reports having a disability that may require a reduced course load should be given consideration. Verification can be requested from the Office of Disability Services if there is reasonable doubt regarding the student's request.

## Intensive Terms

January Term An integral part of the second semester, J-term gives students an opportunity to concentrate on a single course for three weeks. Transcultural travel programs are among the innovative courses offered. Students may also enroll in an approved J-term at another institution. The academic load for the spring semester is the sum of courses taken during J-term and Spring term. Therefore, students normally earn three or four credits in January and 12 or 13 credits during the Spring term, for a total of 15 to 17 credits in the second semester.

While all students are expected to register for a course during J-term each year, first year students and sophomores are required to do so. Since J-term and Spring term together compose the second semester, all fees are applied accordingly. No discounts for tuition or room and board are given to students who do not enroll for a J-term course.

May Term May Term is a three-week term immediately following Spring term and is reserved exclusively for cross-cultural studies courses. 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. Students interested in courses other than cross-cultural studies should enroll in the Summer Session.

Summer Session Undergraduate online courses, taught by Messiah College faculty with special training in online instruction, cost less than courses taught during the traditional academic year. Course credit from summer online courses applies toward the Messiah College degree for current Messiah College students and may fulfill General Education or major requirements.

Students may also elect to take courses at other colleges over the summer and transfer the credits to their Messiah program. To assure transfer of credit, these students should check the online Course Equivalency Database or complete the "Approval for Transfer Credit" form available in the Registrar's Office. In addition, students should ensure that the transfer credit does not violate the residency rule in graduation requirements.
Since Summer School 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, 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.
f. Each of two numbers in a two semester course designates the work of one semester.
g. The credit value of each course appears in parentheses following the course title.

## 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 must select a major no later than the second semester of the sophomore year. This is necessary to allow adequate time for meeting graduation requirements in that major.

## Pre-major status

There are certain programs for which program accreditation or certification of graduates is essential if graduates are to pursue careers in those fields (e.g., nursing, engineering, teacher education, athletic training). If a program is subject to such accrediting or certification requirements, then that program should apply to the Academic Council for internal admission requirements to the program. If additional internal admission requirements to a particular program are approved, then the following conditions apply:
a. Students initially declaring an intent in the program will be designated by a "pre-major" status with their department.
b. Internal admission requirements to the program must be clearly delineated and publicized (e.g., in the catalog description of the program).
c. Internal admission requirements must be such that "first-time, first-year" students who enter Messiah College as "pre-majors" are evaluated before the end of their sophomore year for admission to the particular program. Transfer students (both internal-from another Messiah major-and external-from another institution) must be evaluated by the end of the first semester junior year.

## 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 department chair. Changing a major must be done through the Office of the Registrar.

## Procedure:

(1) The student obtains the Change of Major Request from the Office of the Registrar, obtains the signatures of their current advisor, the department chair in which the new major is housed and their new advisor. The student then 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 to the new advisor.
Rationale: This policy has been instituted to ensure that students wishing to change majors receive adequate counseling, and to enhance campus communication by having all involved.

## 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 College. Students may develop a proposal for an individualized major that combines various academic resources available to all Messiah College students (including the Philadelphia campus and other 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 College'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 college 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 College'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 QuEST 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 college catalog, college 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. During their third semester or anytime thereafter, students may declare their intention to complete a minor by filling out the "Minor Request Form" available in the Registrar's Office.
d. 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

## Fall Semester Registration

Policy: Students admitted to the College formally register for classes through the academic advising process. Prior to registration, students must ensure their accounts are up to date with the Business Office and their health records file is current with the Engle Health Center. Students with a Chapel Hold must receive clearance from the College 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 distributed to current students around March 30.
(2) Students meet with their academic advisor to discuss course selections for the upcoming registration. Desired courses are listed on the "Registration Request" form. This form is signed by the student and his/her advisor. A copy remains with the advisor and the student retains a copy.
(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.

Rationale: Uniformity of procedure is required to handle the large volume of students and ensure fairness to all students. Advisor's signature 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 College Ministries Office are an essential component that requires the student's commitment.

## Spring Semester Registration

Registration procedures for the spring semester are similar to the fall registration procedures. Students will register for both the January Term and the Spring Term (May term Cross-Cultural classes are optional). Registration materials are distributed to current students around October 30.

## Drop/Add (Change in Registration)

a. 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 written approval of the instructor(s) and advisor on a "Drop/Add" form. 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 "drop/add" form. The signatures of the instructor(s) and advisor are required.
(a) During the first third of the semester/term, courses may be dropped with the required signatures.
(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 week of the semester a fee of $\$ 15.00$ per processed Drop/Add Request is charged to the student's account.
(5) 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 of $\$ 40.00$ (per course) will be charged 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 homepage

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 insure students have the opportunity for counseling.

## Special Courses and Credit Programs

## Independent Study Guidelines

Policy: Independent study is available to students who wish to explore a particular area of study outside a classroom setting. 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.

## Procedure:

(1) The student obtains an "Application for Independent Study" for each project undertaken, writes a proposal according to the guidelines given on the application, then obtains the required approval signatures. (2) The student submits the signed application and a copy of the written proposal to the Registrar's Office.
(3) The Registrar's office reviews the application and, if approved the student is registered for the course by the Registrar's Office. One copy of the application is sent to the faculty member supervising the experience and another is retained in the Registrar's Office. A third copy of the application is returned to the student confirming the registration.
(4) Grades are submitted by the faculty member to the Registrar along with other grades at the end of the semester.

## Directed Study Guidelines

Policy: Directed study is available to junior and senior students who need to complete a catalogued course at a time other than when it is offered. Each department has designated which courses may be offered by 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.

## Procedure:

(1) The student obtains an "Application for Directed Study" for each course, obtains the required signatures, and returns the application to the Registrar's Office.
(2) The Registrar's Office reviews the application. If approved, the student is registered for the course by the Registrar's Office. One copy of the application is sent to the faculty member supervising the experience and another is retained in the Registrar's Office. A third copy of the application is returned to the student confirming the registration.
(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 doing 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 physical education activity requirement. Students participating in two intercollegiate sports may apply only one toward the General Education physical education activities 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 College newspaper, The Swinging Bridge, and the College 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 College 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 college level courses in high school may possibly receive college credit for them by taking the AP Examination of the College Entrance Examination Board, if their high school offers it. Granting such credit may reduce the number of semester hours students need for graduation. Official transcripts of AP test results should be sent to the Messiah College 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 college credit for them by taking the IB examination. Granting such credit may reduce the number of semester hours students need for graduation. Official transcripts of IB test results should be sent to the Messiah College Registrar's Office for evaluation.

## Credit by Examination

(1) Policy Messiah College 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. Each department designates which course(s) may be taken as credit by exam.
(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) When the exam has been taken, the department chair or examining professor will indicate the grade (Pass/Fail) on the application form.
(d) The student pays the credit by examination fee at the Falcon Exchange, obtaining the approval signature showing that payment was made.
(e) The form is returned to the Registrar's Office
(f) 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 College 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 and completed at the College 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.
Up to 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 College 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 College's educational mission; therefore, regular class attendance is expected. However, the College 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 "College-endorsed" activities requiring College 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


## Course attendance policies

a. 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 College-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 College-endorsed educational activities without penalty.
b. 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 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.
c. 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.
d. 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 College-endorsed activities

a. Steps will be taken to minimize student absences related to College-endorsed activities. Toward this end,
(1) 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.
(2) All artistic performance programming will be reviewed and approved by the Dean of the School of the Arts prior to the beginning of the semester.
(3) All academic field trips by faculty or departments will be reviewed and approved by the appropriate School Dean or the Assistant Dean of General Education and Common Learning (for IDS courses) at least one month prior to the activity.
(4) 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.
b. All parties involved will be made aware of the scheduled absences well ahead of the date(s) of absence.
(1) To the extent it is possible, absences due to College-endorsed activities will be identified at the beginning of each semester or term.
(a) At the beginning of each semester the Faculty Athletic Representative will send all teaching faculty the approved dismissal times for all scheduled athletic contests.
(b) At the beginning of each semester the Dean of the School of the Arts will send all teaching faculty a schedule of approved performances, which may result in class conflicts.
(2) Upon receipt and approval by the appropriate supervisor, anyone sponsoring the Collegeendorsed educational activity must complete the "Instructor 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.
(3) Students participating in College-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 accordance with the attendance policy of the course.
c. No College-endorsed activities that result in student absences may be scheduled on the days before or after any College break or during finals week. Any exceptions must be approved by the Athletic Director, Vice Provost/Dean of Students, School Dean or Provost.
d. 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 the immediate family

a. For class absence due to personal illnesses, 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 she/he notifies her/his instructors by the end of the day on which the class(es) meet.
b. For deaths in the family and similar emergencies, students should notify Student Affairs through the Office of the Dean of Students. As the Dean's Office will notify the faculty of the student involved, it is important that the student notify the office as soon as possible.
If a student believes that the above policy has not been followed, he or she can appeal to the Provost.

Frequent Absences Due to Illness and Chronic Health Problems. Please see section Students with Disabilities.

## 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 <br> Above <br> Average | C - Good <br> Average | D - Poor Below Average | F - No credit Unsatisfactory |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Interest and ability to communicate. | Almost always shows creativity, sound judgment, intellectual curiosity and communicates correctly and clearly | Frequently shows creativity, sound judgment, intellectual curiosity and communicates correctly and clearly | Shows sustained interest and is able to communicate well and understandably | Exhibits interest. Marginal performance in communicating | Shows subminimal interest. Does not communicate clearly enough to get ideas 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 <br> produces <br> viable <br> generalizations <br> and <br> satisfactorily <br> 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 <br> 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 |  | 0.0 |

## b. Pass/Fail Grades

During a college career, 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 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.
$\mathrm{P}=$ 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.
$\mathrm{F}=$ 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 drops the course in the final third of the term;
(3) 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.

## 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)
$\mathrm{W}=$ Withdrawal. Given to a student who withdraws from a course(s), or from the College, 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 college 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 College.
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 College 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 close of the term.
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.
(2) When a student completes the course work, the instructor submits the change of grade information online to the Registrar's Office indicating the student's correct 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 Registrar.
(a) Fall Semester: before the opening of Spring Term.
(b) All other terms: by the end of the fourth week following the close of the term.
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 the Registrar's Office.
(2) Students may change from credit to audit and vice versa when they register or within the first five class days at the beginning of the new term.
(3) The Business Office 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 change of grade information online to the Registrar's Office. 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 $\mathrm{D}+$, 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 College, including Temple courses taken through the Philadelphia Campus and 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 form 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 of 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 by Philadelphia students at Temple University are so indicated on the transcript, as are courses taken as visiting students at other institutions or other Approved Off-campus Study Programs. 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/transcript). The student's financial account with the College must be cleared before any transcripts are issued.

## Academic Petitions

When a student finds it necessary to request an exception to an academic policy the following procedure shall be followed:
a. Secure an "Academic Policies Petition" from the Office of the Registrar.
b. Complete the form and obtain the signatures of the student's department chair and academic advisor and return the petition to the Office of the Registrar.
c. The petition is then reviewed and acted upon by the Registrar's Office.
d. The decision of the Registrar's Office will be indicated on the form and copies will be distributed to the student's academic file, the student, and the student's advisor.

## General Education Policies Petitions

When a student desires to request an exception to a General Education requirement or a substitution for a General Education requirement the following procedures shall be followed:
a. Secure a "General Education Policies Petition" from the Office of the Registrar.
b. Complete the form and obtain the signatures of the student's department chair and academic advisor and return the petition to the Office of the Registrar.
c. The petition is then reviewed by the Registrar's Office and/or the chair of the General Education Committee who may act on the petition based on approved guidelines for course substitutions and waivers or refer it to the General Education Committee for action.
d. The decision of the Registrar's Office will be indicated on the form and copies will be distributed to the student's academic file, the student, and the student's advisor.

## Alternate Course Request due to Disability

Qualifying students must be registered with the Office of Disability Services and be declared eligible for accommodations under the Americans with Disabilities Act. Eligibility is required before a petition for alternate courses will be considered. 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 Disability Services (available online).
b. Complete the form and submit the petition to the Office of Disability Services.
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 Disability Services.

## 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 College's minimum standards for satisfactory academic progress as soon as possible. Any full-time student who fails to maintain satisfactory academic progress (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
- Staff members of The Pulse Media Hub

Students placed on academic probation as a result of fall semester grades shall become ineligible for cocurricular participation on the first class day of J-term/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 Exams

The instructor shall decide whether students who miss a pre-announced class examination will be granted make-up privileges.

Final Exams (Approved by Community of Educators Senate, 10/15/02)
a. Policy: The final exam period is an important and integral part of the semester. Faculty members are required to conduct a significant evaluative experience/exam or some other educative experience during this time. Faculty should design their courses in a way that preserves the integrity of finals week.
Minimally, this means that faculty should (1) be cautious about the amount of work they assign students in the week prior to finals week and (2) schedule final exams or other semester-ending experiences during
finals week.
Students are expected to attend their final exam period at the scheduled time. Any student having more than eight credit hours of final examinations in one day may request a change in his or her final schedule. All requests for change must be submitted to the Registrar's Office using the "Request for Final Examination Change" form. It should be noted that travel arrangements are not sufficient reason for exceptions to the exam schedule. All requests for rescheduling exams must be submitted to the Registrar at least one week prior to the first day of final examinations. Once the Registrar confirms the student is scheduled for more than 8 credit hours of final examinations in one day, the student and instructor need to coordinate to reschedule the exam for a time mutually acceptable to both.

Any student having an emergency or illness during final examinations should contact his or her instructor immediately. In these situations, make-up privileges and arrangements are at the discretion of the instructor. In no instances should any co-curricular or other College event be scheduled in a way that conflicts with 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 20202-5901. 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 University Honors Program exemplifies Messiah College'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 program curriculum is comprised of general education honors courses and a Senior Honors Experiennce. In addition to the credit bearing curriculum, students meet each semester outside of the classroom in the Honors Congress 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 college transcript and diploma.

Students from all of the college's applied and liberal arts majors are eligible to participate. Moreover, in keeping with the college's commitment to educating the whole person, students in the Honors Program are encouraged to participate in the college's many co-curricular opportunities.

## Application Process

The University Honors Program is open to first-year students.The minimum qualifications include a 1360 SAT score or 29 ACT score or 91 CLT score, and 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 for on-campus interviews. After the on-campus interview and evaluation of all other application materials, approximately 100 students are selected 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 participate in a Director's Reception where, among other things, they meet the other new students in the program. Throughout their time at Messiah University, academic advising is provided by faculty in the department of their chosen major. The Director of the University Honors Program provides additional academic advising and information regarding requirements and activities associated with the Honors Program.

## Curricular Requirements

1. FRESHMAN YEAR:

Fall Semester: First Year Seminar (IDFY 102 - HONORS section); and Spring Semester: Created and Called for Community (IDCR 151 - HONORS section).

## 2. SOPHOMORE or JUNIOR YEAR:

One honors interdisciplinary QuEST course meeting either Ethics, Pluralism, World Views, Non-Western or Science, Technology, and the World (sophomore or junior year)

A second interdisciplinary Quest course from a different category, 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 HONORS J-term/May-term study abroad course.
3. JUNIOR or SENIOR YEAR: Senior Honors Experience. 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 CHP (HONR 498/499) for 4-6 credit hours. A two-semester project that can take a variety of forms, including an interdisciplinary thesis, creative arts project, or service learning project. 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 two semesters and total 4 to 6 credit hours;
- Projects may begin during junior or senior year;
- Projects must be approved by the Honors Director and 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 Congress

Offered each semester, the Honors Congress events will address selected topics and issues. The Congress will revolve around readings, discussion and presentations by college faculty and off-campus guests, as well as cultural events and field trips. CHP students must attend at least three Honors Congress activities in three different semesters. CHP students must complete the Honors Congress requirement in the fall of their first year.

## Eligibility Requirements for the University 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. STUDENTS WITH DISABILITIES - Faculty

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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 their strengths and weaknesses with them. If you feel you do not have the ability to help them, please refer them to the Engle Center, the Office of Academic Accessibility, or the Director of Student Success to get them the help they need 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 or email the Office of Academic Accessibility for 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 they have 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 Melinda Smith 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 their course load and to ensure their 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 them 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 lecture 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 their 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 their 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 their 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 them (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 student 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 human relations skills; prepare for life after graduation; integrate 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
- 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, J-Term, and 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, 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, the course has some of the same components but no redundant assignments. 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
- Credit price for summer course 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?

- Assist student in identifying the type of internship for which they would be academically prepared
- Check Degree Audit to review if ELI requirement met, internship/practicum credit met, or if an internship can be done for elective credit
- Encourage a student to plan early for an internship (3-6 months, minimally), depending on their commitments and scheduling challenges (i.e. athletes, musicians...)
- 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 and override in McSquare 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 from the CPDC website: "Starting and Maintaining a Quality Internship Program" guide


## How can Faculty Access the Opportunities on Handshake - College's Job \& Internship Database?

- Carol Hall, Administrative Assistant in the CPDC: $\underline{\text { CHall @ messiah.edu for directions and access }}$


## 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 advising is best thought of as an overlay of courses that can be scheduled as part of most majors, with the exception of engineering, education, and nursing.

Pre-health professions advising at Messiah College is just that: specialized advising to help you overlay courses that can be part of virtually any major on campus, with the exception of engineering and 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 as long as the one that is chosen is recognized as being academically rigorous. That said, the majority of pre-med students choose a science-related major, but that is not a requirement. A list of the pre-health professions advising choices follow.

## Pre-Health Professions at Messiah (4 years at Messiah)

- Allopathic Medicine
- Chiropractic Medicine
- Dentistry
- Forensic Science
- Occupational Therapy
- Optometry
- Osteopathic Medicine
- Pharmacy
- Physician's 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)

- Biochemistry (B.A.) / Doctor of Pharmacy (Pharm.D.) - University of the Sciences in Philadelphia
- Biopsychology (B.S.) / MSOT in Occupational Therapy - Thomas Jefferson University
- Applied Health Science (B.S.) / MSOT in Occupational Therapy - Thomas Jefferson 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 Biology, Molecular Biology, Chemistry, Biochemistry (B.A. or B.S.) or Biopsychology.

Some students, however, pursue majors outside of the sciences (including majoring in music or the social sciences, for example). In these cases, students are encouraged to take the "strongly recommended" courses described in the next section. Indeed, 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 Smith. It is vital that the student contact Martha Smith as soon as possible after meeting with you, the academic advisor. Because preparing for medical program admissions is more like training for a marathon than a sprint, it is vital that students begin the non-academic portion of their medical program requirements at the beginning of their college career.

## Course Selection, A Generic Framework

While the task of advising students how to plan their academic program in the myriad pre-health professions may seem daunting, the course requirements are actually quite straightforward, at least in the early years. Prospective applicants are required to research the schools to which they may apply to best plan their four-year curriculum, but assigning them to the appropriate courses that will get them off to the best possible start is quite formulaic.

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.

## FIRST YEAR SEQUENCE*

Fall Semester<br>CHEM 105 General Chemistry I<br>BIOL 160 Molecular \& Cellular Biology



## SOPHOMORE YEAR SEQUENCE*

Fall Semester<br>CHEM 309 Organic Chemistry I

CHEM 310 Organic Chemistry II

## JUNIOR YEAR SEQUENCE*

Fall Semester
PHYS 211 General Physics I
CHEM 410 Biochemistry I

* One semester of introduction to psychology (PSYC 101) and one semester of introduction to sociology (SOAN 101) must be completed prior to taking the MCAT.


## Planning Your Academic Program

The courses required for the major are those listed under Major Requirements. They are also listed on the checklist in this handbook. To help the student plan, the course listing by semester for courses in the sciences and mathematics are included below. Note: this list does not guarantee that any particular course will be offered in a given semester.

## EVERY SEMESTER AND J-TERM

Introduction to Psychology

## EVERY SEMESTER

Calculus I<br>Calculus II<br>Introductory Statistics<br>Microbiology for Health Professions<br>Introduction to Sociology

Natural Sciences Capstone Course<br>Research Methods<br>Senior Research<br>Statistical Methods in Psychology

## FALL SEMESTER ONLY

Biochemistry I<br>Chemical Analysis I<br>General Chemistry I<br>Genetics and Development<br>Intuitive Calculus with Applications

Molecular and Cellular Biology
Molecular Biology
Organic Chemistry I
Physical Chemistry I
Senior Chemistry Seminar
Statistics for Mathematical Sciences

## SPRING SEMESTER ONLY

| Animal Form and Function (J-term) | General Chemistry II |
| :--- | :--- |
| Biochemistry II | Junior Chemistry Seminar |
| Cell Biology (odd years) | Organic Chemistry II |
| Chemical Analysis II | Plant Form and Function |


| Fall |
| :--- |
| Inorganic Chemistry (odd years) |
| J-Term |
| Advanced Organic Chem. (odd years) |

## Remember:

1. Students are personally responsible to plan their program to meet all graduation requirements.
2. Under ordinary circumstances, the last thirty (30) credits preceding the conferring of the degree must be earned at Messiah College with a minimum of twelve (12) credits in the major.
3. To continue at Messiah, the student will need to maintain a cumulative grade point of $1.80(0-23$ credits), 1.9 ( $24-56$ credits), and 2.0 ( 57 credits or above).

## Preparing for Graduate Study

Messiah College has a proud tradition of preparing students for careers in the health field. While the academic and experiential requirements may vary by institution, most of them have similar requirements. Prospective applicants are encouraged to research the schools to which they may apply to best plan their curriculum. The following charts present a brief outline of what is generally expected of successful applicants to medical programs, and how Messiah College prepares its students to meet and often exceed these requirements. You will note that at Messiah we have a Pre-Health Program. Our program is best
thought of as an overlay of courses that can be scheduled as part of most majors, with the exception of engineering and nursing.

## Messiah College Course Equivalencies

The tables on the following pages refer to course requirements in one year increments. Here is how that translates to specific Messiah College courses.

- 1 year general biology (Biology 160, 161 and 162)
- 1 year general chemistry (Chemistry 105 and 106)
- 1 year organic chemistry (Chemistry 309 and 310)
- 1 semester biochemistry (CHEM 410) (minimum requirement) Two semesters are preferred (CHEM 410 and 412)
- Math - Requirement varies by institution. This likely includes one semester of statistics (STAT 269, STAT 291 or PSYC 271) and/or one or two semesters of mathematics (MATH 108 or higher).
- 1 year physics (Physics 201 and 202 or Physics 211 and 212)
- 1 year English (satisfied by FYS, CCC and the writing intensive course requirement)
- 1 semester Psychology (PSYC 101)
- 1semester Sociology (SOAN 101)


## Preparing for a Career in Allopathic Medicine (MD)

| Description of Profession | - U.S. Department of Labor Occupational Outlook Handbook www.bls.gov/oco/home.htm or www.explorehealthcareers.org |
| :---: | :---: |
| Course Requirements | - 1 year general biology <br> - 1 year general chemistry <br> - 1 year organic chemistry <br> - 1 year general physics <br> - Some schools may also require math and/or English (check Medical School Admission Requirements; MSAR; www.aamc.org/msar) |
| Application Timeline | Medical school directly after MessiahCollege: <br> - Required courses completed by end of junior year <br> - Apply during summer between junior and senior years |
| Standardized Test | - Medical College Admission Test (MCAT) <br> - Given 22 times from January to September <br> - Take after prerequisite courses are completed (usually spring of junior year or summer between junior and senior years) <br> - Register on-line (www.aamc.org/students/mcat) (registration available 12 weeks before test, registration deadline 14 days before test) <br> - 5 hour test <br> - 4 sections : verbal reasoning (score 1-15), physical sciences (general chemistry and physics; score 1-15), biological sciences (general biology and organic chemistry; score $1-15$ ), writing sample (score J-T) <br> - Receive scores approximately 30 days after test <br> - MCAT Essentials and Preparing for the MCAT Exam (www.aamc.org/students/mcat) |
| Application Service | - American Medical College Application Service (AMCAS) (www.aamc.org/amcas) <br> - Available $\approx$ May 1 <br> - APPLY EARLY!!! |
| Admissions Criteria | - Overall and science GPA (check MSAR for \#'s) <br> - MCAT (check MSAR for \#'s) <br> - Letters of evaluation (committee letter) <br> - The type of letter written on behalf of the applicant may vary. For myriad reasons that will be discussed at the time of application, applicants may have a Committee Letter of Recommendation or a Committee Packet of Information sent on their behalf. <br> - Interview <br> - Extracurricular activities <br> - Medically related experience <br> - Research experience <br> - Study abroad (but take prerequisites in US) |
| Length of Program | - Medical school: 4 years <br> - Residency: 3-8 years |
| Degree | - Doctor of Medicine (MD) |
| Additional Resources | - American Association of Medical Colleges (www.aamc.org) <br> - Tomorrow's Doctors website (www.tomorrowsdoctors.org) <br> - American Medical Association (www.ama-assn.org) |
| Notes | - The Health Professions Committee interviews students during the spring semester to facilitate writing committee letter of evaluation |

## Preparing for a Career in Chiropractic Medicine (DC)

| Description of <br> Profession | $\bullet$ | U.S. Department of Labor Occupational Outlook Handbook <br> www.bls.gov/oco/home.htm |
| :--- | :--- | :--- |
| Course Requirements | $\bullet$ | 1 yww.explorehealthcareers.org |

## Preparing for a Career in Dentistry (DDS or DMD)

| Description of the Profession | - U.S. Department of Labor Occupational Outlook Handbook www.bls.gov/oco/home.htm or www.explorehealthcareers.org |
| :---: | :---: |
| Course Requirements | - 1 year general biology •1 year general chemistry <br> - 1 year organic chemistry $\quad 1$ year general physics <br> - Some schools may also require additional biology, English, math and/or social sciences (check the Official Guide to Dental Schools; www.adea.org) |
| Application Timeline | Dental school directly after Gettysburg College: <br> - Required courses completed by end of junior year <br> - Apply during summer between junior and senior years |
| Standardized Test | - Dental Admission Test (DAT) <br> - Given virtually daily at computer test centers <br> - Take after general biology, general chemistry, and organic chemistry are completed (usually end of junior year) <br> - Register on-line (www.ada.org) <br> - Length 4.25 h <br> - 4 sections : survey of natural sciences (general biology, general chemistry, organic chemistry), perceptual ability, reading comprehension, quantitative reasoning <br> - Receive scores immediately <br> - DAT Program Examinee Guide (www.ada.org) |
| Application Service | - American Association of Dental Schools Application Service (AADSAS) (www.adea.org ) <br> - Available $\approx$ May 15 <br> - APPLY EARLY!!! |
| Admissions Criteria | - Overall and science GPA (check Official Guide for \#'s) <br> - DAT (check Official Guide for \#'s) <br> - Letters of evaluation (committee letter) - The type of letter written on behalf of the applicant may vary. For myriad reasons that will be discussed at the time of application, applicants may have a Committee Letter of Recommendation or a Committee Packet of Information sent on their behalf. <br> - Interview <br> - Extracurricular activities <br> - Health-related experience |
| Length of Program | - Dental school: 4 years <br> - Specialties require additional education after dental school |
| Degree | - Doctor of Dental Surgery (DDS) <br> - Doctor of Dental Medicine (DMD) <br> - (The two degrees are entirely equivalent.) |
| Additional Resources | - American Student Dental Association (ASDA) (www.asdanet.org) <br> - Getting into Dental School: ASDA's Guide for Predental Students (www.asdanet.org/publication ) <br> - American Dental Association (www.ada.org) <br> - American Dental Education Association (www.adea.org) |
| Notes | - The Health Professions Committee interviews students during the spring semester to facilitate writing committee letter of evaluation |

## Preparing for a Career in Occupational Therapy (MS, MA, MOT or OTD)

| Description of Profession | - U.S. Department of Labor Occupational Outlook Handbook www.bls.gov/oco/home.htm <br> - www.explorehealthcareers.org |
| :---: | :---: |
| Course Requirements | - Requirements vary by school <br> - Check the Student section on the American Occupational Therapy Association webpage (www.aota.org) <br> - Generally, course work should include general biology, human anatomy and physiology, statistics, and social sciences |
| Application Timeline | Occupational therapy school directly after Messiah College: <br> - Required courses completed by end of senior year (although preference may be given to applicants that complete the required courses sooner) <br> - Apply during fall of senior year |
| Standardized Test | - Graduate Record Exam (GRE) <br> - Given virtually daily at computer test centers <br> - Register on-line (www.gre.org) <br> - Length 3 h <br> - 3 sections : verbal (scores 200-800), quantitative (200-800), analytical writing (0-6) <br> - Receive scores immediately |
| Application Service | - No centralized application service <br> - Apply directly to each occupational therapy school <br> - APPLY EARLY!!! |
| Admissions Criteria | - GPA $\bullet$ GRE <br> - Letters of evaluation $\bullet$ Health-related experience <br> - Personal statement  |
| Length of Program | - Varies by school <br> - $\approx 3-4$ years for OTD programs <br> - $\approx 2$ years for MS, MA, or MSOT programs |
| Degree | - OTD (Doctor of Occupational Therapy) (5 programs) <br> - MS (Master of Science), MA (Master of Arts), or MOT (Master of Occupational Therapy) (most programs) |
| Additional Resources | - The American Occupational Therapy Association (www.aota.org) |

## Preparing for a Career in Optometry (OD)

| Description of the Profession | - U.S. Department of Labor Occupational Outlook Handbook www.bls.gov/oco/home.htm or www.explorehealthcareers.org |
| :---: | :---: |
| Course Requirements | - 1 year general biology <br> - 1 year organic chemistry <br> - 1 year English <br> - 1 year math (algebra/trigonometry/calculus) <br> - Some schools may also require additional biology and psychology (check Schools and Colleges of Optometry Admission Requirements or online at www.opted.org) |
| Application Timeline | Optometry school directly after Messiah College: <br> - Required courses completed by end of junior year <br> - Apply during summer between junior and senior years or in the early fall of senior year |
| Standardized Test | - Optometry Admission Test (OAT) <br> - Given virtually daily at computer test centers <br> - Take after general biology, general chemistry, organic chemistry, and physics are completed <br> - Register on-line (www.opted.org) <br> - Length 275-300 minutes <br> - 4 sections : Survey of the Natural Sciences (Biology, General Chemistry, Organic Chemistry), Reading Comprehension, Physics, Quantitative Reasoning <br> - Receive scores immediately <br> - Scaled scores range from 200 to 400 <br> - Examinee Guide available at www.opted.org |
| Application Service | - No centralized application service <br> - Apply directly to each optometry school <br> - APPLY EARLY!!! |
| Admissions Criteria | - Overall and science GPA <br> - OAT <br> - Letters of evaluation (usually committee letter; additional letters may be required) <br> - Interview <br> - Extracurricular activities <br> - Health-related experience <br> - Research experience |
| Length of Program | - Optometry school: 4 years <br> - Optional 1 year residency |
| Degree | - Doctor of Optometry (OD) |
| Additional Resources | - Association of Schools and Colleges of Optometry (www.opted.org) <br> - American Academy of Optometry (www.aaopt.org) <br> - American Optometric Association (www.aoanet.org) |

## Preparing for a Career in Osteopathic Medicine (D0)

| Nature of the Work | - U.S. Department of Labor Occupational Outlook Handbook www.bls.gov/oco/home.htm or www.explorehealthcareers.org |
| :---: | :---: |
| Course Requirements | - 1 year general biology •1 year general chemistry <br> - 1 year organic chemistry • 1 year general physics <br> - Some schools may also require additional biology, English and/or behavioral science (check Osteopathic Medical College Information Book; CIB; www.aacom.org ) |
| Application Timeline | Medical school directly after Gettysburg College: <br> - Required courses completed by end of junior year <br> - Apply during summer between junior and senior years |
| Standardized Test | - Medical College Admission Test (MCAT) <br> - Given 22 times from January to September <br> - Take after prerequisite courses are completed (usually spring of junior year or summer between junior and senior years) <br> - Register on-line (www.aamc.org/students/mcat) (registration available 12 weeks before test, registration deadline 14 days before test) <br> - 5 hour test <br> - 4 sections: verbal reasoning (score 1-15), physical sciences (general chemistry and physics; score 1-15), biological sciences (general biology and organic chemistry; score 1-15), writing sample (score J-T) <br> - Receive scores approximately 30 days after test <br> - MCAT Essentials and Preparing for the MCAT Exam www.aamc.org/students/mcat |
| Application Service | - American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS) (https://aacomas.aacom.org) <br> - Available $\approx$ June 1 <br> - APPLY EARLY!!! |
| Admissions Criteria | - Overall and science GPA (check CIB for \#'s) <br> - MCAT (check CIB for \#'s) <br> - Letters of evaluation (committee letter and often a letter from a DO; check CIB) <br> - Interview <br> - Extracurricular activities <br> - Medically related experience |
| Length of Program | - Medical school: 4 years <br> - Residency: 1-6 years |
| Degree | - Doctor of Osteopathic Medicine (DO) |
| Additional Resources | - American Association of Colleges of Osteopathic Medicine (www.aacom.org ) <br> - American Osteopathic Association (AOA) (www.osteopathic.org) |
| Notes | - The Pre-Health Professions Advising Committee interviews students during the spring semester to facilitate writing committee letter of evaluation |

## Preparing for a Career in Pharmacy (PharmD)

| Description of the Profession | - U.S. Department of Labor Occupational Outlook Handbook www.bls.gov/oco/home.htm <br> - www.explorehealthcareers.org |
| :---: | :---: |
| Course Requirements | - Requirements vary by school <br> - Check the Pharmacy School Admission Requirements (PSAR) (www.aacp.org) <br> - Generally, course work should include biology, chemistry, physics, English, social sciences, and humanities |
| Application Timeline | Pharmacy school directly after Messiah College: <br> - Required courses completed by end of fall semester of senior year <br> - Apply during summer between junior and senior years or during senior year |
| Standardized Test | - Pharmacy College Admission Test (PCAT) (www.pcatweb.info) <br> - Approximately half of the pharmacy schools require or recommend the PCAT <br> - Given four times a year, usually in January, June, August and October <br> - Register on-line (www.pcatweb.info) <br> - Length 5 h <br> - 6 sections : Verbal Ability, Quantitative Ability, Biology, Chemistry, Reading Comprehension, Writing <br> - Receive scores approximately 6 weeks after test <br> - Scores range from 200 to 600 <br> - Candidate Information Booklet (www.pcatweb.info) |
| Application Service | - Approximately half of the pharmacy schools participate in the Pharmacy College Application Service (PharmCAS) (www.pharmcas.org) <br> - Available $\approx$ June 1 <br> - Each school selects an application deadline (November, December, January, February, or March) <br> - For pharmacy schools that do not participate in PharmCAS, apply directly to the school <br> - APPLY EARLY!!! |
| Admissions Criteria | - Overall and science GPA (check PSAR for \#'s) <br> - PCAT <br> - Letters of evaluation <br> - The type of letter written on behalf of the applicant may vary. For myriad reasons that will be discussed at the time of application, applicants may have a Committee Letter of Recommendation or a Committee Packet of Information sent on their behalf. <br> - Interview <br> - Written communication skills via an essay during the interview process <br> - Health-related experience <br> - Extracurricular activities |
| Length of Program | - 4 academic years or 3 calendar years |
| Degree | - Doctor of Pharmacy (Pharm.D.) |
| Additional Resources | - American Association of Colleges of Pharmacy (www.aacp.org) <br> - American Pharmacists Association (www.aphanet.org) |

## Preparing for a Career in Physical Therapy (MS, MPT, or DPT)

| Nature of the Work | For descriptions of this profession see: <br> - U.S. Department of Labor Occupational Outlook Handbook www.bls.gov/oco/home.htm <br> - www.explorehealthcareers.org |
| :---: | :---: |
| Course Requirements | - Requirements vary by school <br> - Check the Education section on the American Physical Therapy Association webpage (www.apta.org) <br> - Generally, course work should include general biology, general chemistry, general physics, human anatomy and physiology, statistics, psychology, English, and humanities |
| Application Timeline | Physical therapy school directly after Messiah College: <br> - Required courses completed by end of senior year (although preference may be given to applicants that complete the required courses sooner) <br> - Apply during fall of senior year |
| Standardized Test | - Graduate Record Exam (GRE) <br> - Given virtually daily at computer test centers <br> - Register on-line (www.gre.org) <br> - Length 3 h <br> - 3 sections : verbal (scores 200-800), quantitative (200-800), analytical writing (0-6) <br> - Receive scores immediately |
| Application Service | - No centralized application service <br> - Apply directly to each physical therapy school <br> - APPLY EARLY!!! |
| Admissions Criteria | - GPA <br> - GRE <br> - Letters of evaluation <br> - Health-related experience <br> - Writing and interpersonal skills |
| Length of Program | - Varies by school <br> - $\approx 3$ years for DPT programs |
| Degree | - DPT (Doctor of Physical Therapy) ( $\approx 50 \%$ of programs) <br> - MS (Master of Science) or MPT (Master of Physical Therapy) ( $\approx 50 \%$ of programs) |
| Additional Resources | - American Physical Therapy Association (www.apta.org) |

## Preparing for a Career as a Physician Assistant (PA)

| Description of the | •U.S. Department of Labor Occupational Outlook Handbook <br> Profession | - www.bls.gov/oco/home.htm |
| :--- | :--- | :--- |
| - | www.explorehealthcareers.org |  |

## Preparing for a Career in Podiatric Medicine

| Description of the <br> Profession | $\bullet$U.S. Department of Labor Occupational Outlook Handbook <br> www.bls.gov/oco/home.htm |
| :--- | :--- | :--- |
|  | $\bullet \underline{\text { www.explorehealthcareers.org }}$ |

## Preparing for a Career in Public Health

| Description of the Profession | - Association of Schools of Public Health webpage (www.asph.org) <br> - www.explorehealthcareers.org |
| :---: | :---: |
| Options | - There are 5 core areas of public health: <br> Biostatistics <br> Epidemiology <br> Health Services Administration <br> Health Education/Behavioral Science <br> Environmental Health <br> - Many schools offer concentrations in addition to the 5 core areas of public health <br> - Check the Association of Schools of Public Health website (www.asph.org) for a list of schools of public health |
| Course <br> Requirements | - Requirements vary by school |
| Application Timeline | Public health school directly after Messiah College: <br> - Required courses completed by end of senior year (although preference may be given to applicants that complete the required courses sooner) <br> - Apply during fall of senior year |
| Standardized Test | - Usually Graduate Record Exam (GRE), but varies by school <br> - Given virtually daily at computer test centers <br> - Register on-line (www.gre.org) <br> - Length 3 h <br> - 3 sections: verbal (scores 200-800), quantitative (200-800), analytical writing (0-6) <br> - Receive scores immediately |
| Application Service | - 22 of the 39 schools of public health participate in the Schools of Public Health Application Service (SOPHAS) (www.sophas.org) <br> - Available ~September 1 <br> - APPLY EARLY!!! |
| Length of Program | - Varies by school <br> - Master degree programs $\approx 1-2$ years <br> - Doctoral degree programs $\approx 3$ years or more |
| Degree | - Master of Public Health (MPH) <br> - Master of Health Administration (MHA) <br> - Master of Science (MS) <br> - Doctor of Public Health (DrPH) <br> - Doctor of Philosophy (PhD) <br> - Doctor of Science (ScD) |
| Admissions Criteria | - GPA <br> - GRE <br> - Letters of evaluation <br> - Health-related experience <br> - Personal statement |
| Additional Resources | - Association of Schools of Public Health (www.asph.org) <br> - www.publichealthjobs.net <br> - www.whatispublichealth.org <br> - American Public Health Association (www.apha.org) |

## 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 College 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 precautions that they need to take in order to remain in compliance with their visas.

## Commonly Used Terms

I-20: Certificate of Eligibility for Non-immigrant (F-1) Student Status, issued by Messiah College 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 college approved by the Department of Homeland Security to access SEVIS. A DSO is responsible for issuing I-20s; approving - reduced course load, internship and other work authorization; and reporting and updating student's information in SEVIS. A DSO is also the one who can endorse a student's I-20 for travel.

Maintaining Status: This means the students are complying with immigration regulations pertaining to their F-1 student status. 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.

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 must report information on students and scholars in SEVIS, which is accessible the government.

## Advising Issues that Impact F-1 Students

## Change of Major

If an F-1 international student changes a major or adds a major they must inform the Intercultural Office, as the student needs to obtain a new I-20 to reflect their current degree programs.

## Extension of Program

A student who is unable to complete his or her studies by the end date indicated on his or her I20 must apply for an extension prior to the expiration of their I-20. A delay caused by academic probation or suspension is not an acceptable reason for extension.

## Full-Time Enrollment

F-1 international students are required to study full-time each term by enrolling in and completing a minimum of $\mathbf{1 2}$ 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 Intercultural Office 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


## 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 his or her degree program, that course cannot be taken online.

For more information, please contact the Intercultural Office:
Visit our website at: www.messiah.edu/intercultural
Gina Hale, Intercultural Office Administrative Assistant
ghale@messiah.edu x2131
Minoska Villegas, Intercultural Programs Advisor, DSO
mvillegas@messiah.edu x6700
Lydia Skulstad, Director of International Student Programs, DSO
lskulstad@messiah.edu x2172
*Under certain academic or medical circumstances, international students on F-1 status may receive authorization from the Intercultural Office for a Reduced Course Load (RCL), which gives them permission to enroll in less than 12 credits.


[^0]:    a Indicates requirement for admission to the TEP
    ${ }^{\mathrm{b}}$ Indicates a course that cannot be taken until the student is admitted to the TEP
    ${ }^{\text {c I Indicates courses that must be taken concurrently }}$

[^1]:    **Students may take BIOL 185, 186, 189 and PSYC 099 in place of BIOL 160, 162, 164, 166 and 260.
    *** Students may take CHEM 204 in place of CHEM 309 and 310.
    $\dagger$ Needed only if CHEM 204 taken

[^2]:    *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

[^3]:    *QuEST requirement

[^4]:    + 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 CIS 171. 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 Program3.0 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.

[^5]:    *QuEST requirement
    ${ }^{\wedge}$ 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.

