

Arts and Sciences Division
Mathematics Department

| Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed <br> Sem./Year |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| FRESHMAN EXPERIENCE |  |  |  |  |  |
| SSC101 | Student Success Seminar^^ | 1 | Take first semester |  |  |
|  |  |  |  |  |  |

ENGLISH COMPOSITION AND ORAL COMMUNICATION: 6 credit hours minimum

| ENG124 | College Composition^ (required) | 3 | Co-ENG024 or Co-ENG011 or Proficiency |  |
| :---: | :---: | :---: | :---: | :---: |
| ENG221 | Technical Report Writing | 3 | ENG124 |  |
| ENG230 | Business Communication | 3 | ENG124 |  |
| ENG231 | College Composition II | 3 | ENG124 |  |
| COM122 | Interpersonal Communication | 3 |  |  |
| COM123 | Small Group Communication | 3 | IDS102 or Proficiency |  |
| COM125 | Introduction to Communication Theory^ $\boldsymbol{\Delta}_{\text {- }}$ | 3 | IDS102 or Proficiency |  |
| COM121 | Effective Speaking | 3 |  |  |
| SOCIAL AND BEHAVIORAL SCIENCES: 6 credit hours minimum |  |  |  |  |
| PSC121 | U.S. Government and Politics | 3 |  |  |
| PSY121 | General Psychology^ | 3 | IDS102 or Proficiency |  |
| SOC121 | Sociology ${ }^{\wedge}$ | 3 | IDS102 or Proficiency |  |
| SOC225 | Diversity in American Society (required) | 3 | IDS102 or Proficiency |  |
| BUS122 | Basic Economics^ | 3 | IDS102 or Proficiency |  |
| BUS221 | Microeconomics^ | 3 | IDS102 or Proficiency |  |
| BUS222 | Macroeconomics ${ }^{\wedge}$ | 3 | IDS102 or Proficiency |  |
| ARTS AND HUMANITIES: 6 credit hours minimum |  |  |  |  |
| ENG233 | British Literature I: Med to 1785 | 3 | ENG124 |  |
| ENG234 | British Literature II: 1785 to Present | 3 | ENG124 |  |
| ENG236 | American Literature: Colonial to 1865 | 3 | ENG124 |  |
| ENG237 | American Literature: 1865 to Present | 3 | ENG124 |  |
| HIS121 | U.S. History I to 1877 | 3 |  |  |
| HIS122 | U.S. History II from 1877 | 3 |  |  |
| HIS221 | World Civilization to 17th Century | 3 |  |  |
| HIS222 | World Civilization from 17th Century | 3 |  |  |
| PHL122 | Ethics | 3 |  |  |
| NATURAL SCIENCES: 7 credit hours minimum (1 lab course required) |  |  |  |  |
| BIO121 | Anatomy and Physiology I (lab) ${ }^{\wedge}$ 入 | 4 | BIO101 or Proficiency |  |
| BIO122 | Anatomy and Physiology II (lab) | 4 | BIO121 or BIO123 |  |
| BIO124 | Human Diseases | 3 | BIO122 or BIO123 |  |
| BIO126 | Science, Energy, \& the Environment (lab) | 4 |  |  |
| BIO127 | Human Biology (lab) | 4 |  |  |
| BIO129 | Meteorology (lab) | 3 |  |  |

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| :---: | :---: | :---: | :---: | :---: |

NATURAL SCIENCES, Continued: 7 credit hours minimum (1 lab course required)

| BIO141 | General Biology I (lab) | 4 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| BIO142 | General Biology II (lab) | 4 |  |  |
| BIO221 | Principles of Microbiology (lab) | 4 | BIO 122 or BIO123 or BIO127 or BIO141 |  |
| CHM101 | Introduction to Chemistry^^ | 4 | (MTH022 or MTH023 or Proficiency) or MTH105 or MTH107 or Proficiency |  |
| CHM123 | General, Organic, and Biological Chemistry (lab) | 4 | (MTH024 or MTH025 or Proficiency) or MTH105 or MTH107 or (CHM101 or Proficiency) |  |
| CHM141 | General Chemistry I (lab)^^ | 5 | (CHM101 or Proficiency) or (MTH024 or MTH025 or Proficiency) |  |
| CHM142 | General Chemistry II (lab) | 5 | CHM141 |  |
| PHY101 | Principles of Physics (lab)^ | 4 | (MTH024 or MTH025 or Proficiency) or MTH105 or MTH107 and (IDS102 or Proficiency) |  |
| PHY121 | College Physics I with Algebra (lab)^ | 4 | MTH135 or (MTH125 and MTH130) or Proficiency |  |
| PHY122 | College Physics II with Algebra (lab) | 4 | PHY121 |  |
| PHY105 | Astronomy (lab) | 4 |  |  |
| PHY221 | General Physics I with Calculus (lab) © - | 5 | MTH223 and Co-MTH224 |  |
| PHY222 | General Physics II with Calculus (lab) ©+ | 5 | $\begin{gathered} \hline \text { PHY221 and MTH224 } \\ \text { and Co-MTH225 } \\ \hline \end{gathered}$ |  |

MATHEMATICS, STATISTICS, AND LOGIC CORE: 26 credit hours required

| MTH135 | Precalculus $\wedge$ - A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. | 5 | MTH025 or Proficiency |  |
| :---: | :---: | :---: | :---: | :---: |
| MTH214 | Discrete Mathematics^ | 3 | MTH125 or MTH135 or Proficiency |  |
| MTH223 | Analytic Geometry and Calculus I ${ }^{\wedge}$ | 4 | MTH135 or (MTH125 and MTH130) or Proficiency |  |
| MTH224 | Analytic Geometry and Calculus II | 4 | MTH223 |  |
| MTH225 | Analytic Geometry and Calculus III | 4 | MTH224 |  |
| MTH226 | Linear Algebra ${ }^{\text {- }}$ | 3 | MTH224 |  |
| MTH227 | Ordinary Differential Equations $\mathbf{4}^{+}$ | 3 | MTH224 |  |
| ADDITIONAL ELECTIVES FROM THIS SHEET TO COMPLETE DEGREE ${ }^{5}$ |  | 8-9 | Check for prerequisites |  |
|  | TOTAL CREDIT HOURS | 61-65 |  |  |

${ }^{\wedge}$ Based upon SSC placement scores.

- Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.
${ }^{5}$ Additional Electives: Any courses listed on this sheet not already being used to fulfill another requirement.
A-Fall only courses. Please see your academic advisor for availability.
© + Spring only courses. Please see your academic advisor for availability.


## PART-TIME STUDENT ADVISING NOTES

## Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

## Course Sequence

The semester-by-semester listing below provides the normal scheduling option for part-time associate degree students who plan to finish in eight semesters.

| First Semester | Credit Hours | Pre- and Co-requisites |
| :---: | :---: | :---: |
| SSC101 Student Success Seminar^ | 1 | Take first semester |
| MTH135Precalculus^ - A student may take MTH125 <br> (College Algebra) and MTH130 (Trigonometry) <br> over two semesters to satisfy this requirement. | 5 | MTH025 or Proficiency |
| ENG124 College Composition^ (required) | $\underline{3}$ | Co-ENG024 or Co-ENG011 or Proficiency |
|  | 9 |  |
| Second Semester |  |  |
| MTH223 Analytic Geometry and Calculus I^ | 4 | MTH135 or (MTH125 and MTH130) or Proficiency |
| Social and Behavioral Science Elective ${ }^{2}$ | $\frac{3}{7}$ | Check for prerequisite |
| Third Semester |  |  |
| MTH224 Analytic Geometry and Calculus II | 4 | MTH223 |
| English Composition and Oral Communication Elective ${ }^{3}$ |  | Check for prerequisite |
| Fourth Semester |  |  |
| MTH225 Analytic Geometry and Calculus III | 4 | MTH224 |
| MTH226 Linear Algebra - | $\frac{2}{7}$ | MTH224 |
| Fifth Semester |  |  |
| MTH227 Ordinary Differential Equations - + | 3 | MTH224 |
| SOC225 Diversity in American Society (required) | 3 | IDS102 or Proficiency |
| Natural Science Elective ${ }^{1}{ }^{1}$ | 4-5 | Check for prerequisite |
|  | 10-11 |  |
| Sixth Semester |  |  |
| Natural Science Elective ${ }^{1}$ ' | 3-5 | Check for prerequisite |
| MTH214 Discrete Mathematics^ | $\underline{3}$ | MTH125 or MTH135 or Proficiency |
|  | 6-8 |  |
| Seventh Semester |  |  |
| Additional Elective ${ }^{5}$ | 3 | Check for prerequisite |
| Arts and Humanities Elective ${ }^{4}$ | $\frac{3}{6}$ | Check for prerequisite |
| Eighth Semester |  |  |
| Arts and Humanities Elective ${ }^{4}$ | 3 | Check for prerequisite |
| Additional Elective ${ }^{5}$ | 3-4 | Check for prerequisite |
| Additional Elective ${ }^{5}$ | $\frac{3}{9}$ | Check for prerequisite |
| TOTAL CREDITS | 61-65 |  |

^ Based upon SSC placement scores.
${ }^{\wedge}$ To promote student success, this course should be taken in the first semester.

- Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.
${ }^{1}$ Natural Science Electives: BIO121, BIO122, BIO124, BIO126, BIO127, BIO129, BIO141, BIO142, BIO221, CHM101, CHM123, CHM141, CHM142, PHY101, PHY105, PHY121, PHY122, PHY221, PHY222
${ }^{2}$ Social and Behavioral Sciences Electives: BUS122, BUS221, BUS222, PSC121, PSY121, SOC121
${ }^{3}$ English Composition and Oral Communication Electives: COM121, COM122, COM123, COM125, ENG221, ENG230, ENG231
${ }^{4}$ Arts and Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122
5 Additional Electives: Any courses listed on this sheet not already being used to fulfill another requirement.
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    ${ }^{\wedge \wedge}$ To promote student success, this course should be taken in the first semester.
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