

PRE-MEDICAL PROFESSIONAL CONCENTRATION

(Pre-Pharmacy, Pre-Medicine, Pre-Dentistry, Pre-Veterinary)

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-132024-25 Catalog Effective Summer 2024

1280

Completed

Sem./Year

| | 28. | - | | | | | | |
|---|---|---------|--|--|--|--|--|--|
| | Biology Departmen | ıt | | | | | | |
| Course Number | Course Title | Credits | Pre- and Co-Requisites | | | | | |
| FRESHMAN EXPERIENCE | | | | | | | | |
| SSC101 | Student Success Seminar^^ | 1 | Take first semester | | | | | |
| ENGLISH COMPOSITION AND ORAL COMMUNICATION: 6 credit hours | | | | | | | | |
| ENG124 | College Composition [^] (required) | 3 | Co-ENG024 or Co-ENG011 or Proficiency | | | | | |
| ENG231 | College Composition II | 3 | ENG124 | | | | | |
| COM121 | Effective Speaking | 3 | | | | | | |
| COM122 | Interpersonal Communication | 3 | | | | | | |
| SOCIAL AND BEHAVIORAL SCIENCES: 6 credit hours across two disciplines | | | | | | | | |
| BUS122 | Basic Economics^ | 3 | IDS102 or Proficiency | | | | | |
| PSY121 | General Psychology^ | 3 | IDS102 or Proficiency | | | | | |
| SOC121 | Sociology^ | 3 | IDS102 or Proficiency | | | | | |
| SOC225 | Diversity in American Society (required) | 3 | IDS102 or Proficiency | | | | | |
| ARTS AND HUMANITIES: 6 credit hours across two disciplines | | | | | | | | |

ARTS AN D HUMANI 6 credit hours across two disciplines ENG233 3 ENG124 British Literature: Med to 1785 ENG234 British Literature: 1785 to Present 3 **ENG124** 3 ENG236 American Literature: Colonial to 1865 ENG124 3 **ENG237** American Literature: 1865 to Present **ENG124** HIS121 U.S. History I to 1877 3 3 HIS122 U.S. History II from 1877 **PHL122** 3 Ethics (recommended) MATHEMATICS, STATISTICS, AND LOGIC: 4-5 credit hours MTH023 or Pre-Co-MTH125 College Algebra^ 4 MTH025 or Proficiency Precalculus[^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) MTH135 5 MTH025 or Proficiency over two semesters to satisfy this requirement. (required) NATURAL SCIENCES: 13 credit hours (1 lab course required) **BIO141** General Biology I (lab) 4 **BIO142** 4 General Biology II (lab) (CHM101 or Proficiency) or

^Based upon SSC placement score

CHM141

^^To promote student success, this course should be taken in the first semester

General Chemistry I (lab)[∧]★

GENERAL EDUCATION CREDIT TOTAL

Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry in high school. Students who did not complete chemistry in high school, or who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

5

36 - 37

(MTH024 or MTH025 or Proficiency)

2024-25 Catalog

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(Pre-Pharmacy, Pre-Medicine, Pre-Dentistry, Pre-Veterinary)

| Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year | | | |
|--|--|---------|--|------------------------|--|--|--|
| CONCENTRATION CORE | | | | | | | |
| CHM142 | General Chemistry II (lab) | 5 | CHM141 | | | | |
| CHM241 | Organic Chemistry I (lab)▲- | 5 | CHM142 | | | | |
| CHM242 | Organic Chemistry II (lab)▲+ | 5 | CHM241 | | | | |
| MTH124 | Statistics^ | 3 | MTH022 or Pre-Co-MTH024 or Proficiency | | | | |
| CONCENTRATION ELECTIVES – Select additional courses to complete the total of 60 - 64 credit hours* | | | | | | | |
| BIO121 | Anatomy and Physiology I (lab) | 4 | BIO101 or Proficiency | | | | |
| BIO122 | Anatomy and Physiology II (lab) | 4 | BIO121 or BIO123 | | | | |
| BIO123 | Principles of Human Structure and Function (lab) | 5 | BIO101 or Proficiency | | | | |
| BIO221 | Principles of Microbiology (lab) | 4 | BIO122 or BIO123 or BIO127 or BIO141 | | | | |
| BIO241 | General Genetics (lab)▲- | 4 | BIO141 | | | | |
| BIO242 | Cell & Molecular Biology (lab)▲+ | 4 | BIO141 | | | | |
| CHM243 | Biochemistry I | 3 | CHM123 or CHM141 | | | | |
| MTH223 | Analytic Geometry – Calculus I^ | 4 | MTH135 or (MTH125 and MTH130) or Proficiency | | | | |
| 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 | | | | |
| SCI271 | Special Topics in Science I | 1 | Sophomore in Program | | | | |
| SCI272 | Special Topics in Science II | 2 | Sophomore in Program | | | | |
| SCI273 | Special Topics in Science III | 3 | Sophomore in Program | | | | |
| | TOTAL CREDIT HOURS | 60-64 | | | | | |

^Based upon SSC placement score

*Please obtain the complete list of entrance requirements for the professional medical school(s) to which you would like to apply and consult your academic advisor to determine what electives to take.

A-Fall only courses. Please see your academic advisor for availability.
A+Spring only courses. Please see your academic advisor for availability.

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FULL-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 on the next page provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit Transferology at http://www.transferology.com to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer 36 approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

| <u>First Semester</u> SSC101 | Student Success Seminar^^ | Credit Hours 1 | <u>Pre- and Co-requisites</u> Take first semester |
|--|---|---------------------|--|
| BIO141 CHM141 | General Biology I (lab) General Chemistry I (lab)^▲ | 4 5 | |
| CHWI141 | General Chemistry I (lab) | 5 | (CHM101 or Proficiency) |
| | | | or (MTH024 or MTH025 or Proficiency) |
| Mathematics, Statistics, Logic Elective ⁴ | | <u>4-5</u> 14-15 | Check for prerequisite |
| Second Semester | | | |
| BIO142 | General Biology II (lab) | 4 | |
| CHM142 ENG124 | General Chemistry II (lab) College Composition (required) | 53 | CHM141 Co-ENG024 or Co-ENG011 or |
| EN0124 | Conege Composition (required) | 5 | Proficiency |
| Arts and Humanities Elec | ctive ³ | <u>3</u> | Check for prerequisite |
| | | 15 | |
| Third Semester (Summer |) | | |
| SOC225 | Diversity in American Society (required) | 3 | IDS102 or Proficiency |
| Arts and Humanities Elec | | <u>3</u> | Check for prerequisite |
| | | 6 | |
| Fourth Semester | | | |
| CHM241 | Organic Chemistry I (lab)▲- | 5 | CHM142 |
| Concentration Elective ^{5*} | | 3-5 | Check for prerequisite |
| English Composition and Oral Communication Elective ¹ | | <u>3</u> 11-13 | Check for prerequisite |
| Fifth Semester | | 5 | |
| CHM242 | Organic Chemistry II (lab)▲+ | 5 | CHM241 |
| MTH124 | Statistics^ | 3 | MTH022 or Pre-Co-MTH024 or Proficiency |
| Social and Behavioral Sc | ience Elective ² | 3 | Check for prerequisite |
| Concentration Elective ^{5*} | | <u>3 - 4</u> | Check for prerequisite |
| | | 14-15 | |
| | TOTAL CREDITS | 60-64 | |

^Based upon SSC placement score

^^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 in high school. Students who did not complete chemistry in high school, or who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹English Composition and Oral Communication Electives: COM121, COM122, ENG231

² Social and Behavioral Science Electives: BUS122, PSY121, SOC121

³ Arts and Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

⁴Mathematics, Statistics, Logic Electives: MTH125 or MTH135

⁵ Concentration Electives: BIO121, BIO122, BIO123, BIO221, BIO241, BIO242, CHM243, MTH223, PHY101, PHY121, PHY122, SCI271, SCI272, SCI273

* Please obtain the complete list of entrance requirements for the professional medical school(s) to which you would like to apply and consult your academic advisor to determine what electives to take.

▲-Fall only courses. Please see your academic advisor for availability.

▲+Spring only courses. Please see your academic advisor for availability.