GENERAL STUDIES IN MATH AND NATURAL SCIENCES (AS)

Catalog Effective Term: Fall 2024 Program Code: ASGSMS Credential: Associate in Science

This program allows students to design a program of study to meet their individual needs. This may be a good option if students are undecided about a major and want to explore a variety of discipline areas with a concentration in math and natural sciences. The program also allows students to customize their coursework to the requirements of the senior college or university to which they are transferring. Students should begin by meeting with a counselor who will assist them in developing a program of study that meets all of the College's graduation requirements. A counselor can also help students determine their interests and career and educational goals as well as provide transfer and career information.

Articulation

Eastern Michigan University, Technology Management BS

Complete both of the following concentrations:

- · Math/Science Concentration
- Concentration 2

Minimum Credits Required for the Program: 60

Math/Science Concentration

Complete a concentration in math or science 15 credit hours from no more than two disciplines chosen from Biology, Chemistry, Environmental Science, Geology, Math or Physics (A minimum of 6 credits at the 200 level is strongly recommended).

Please see an advisor to select courses that will meet the requirements of the college to which you are transferring.

Students transferring to EMU should select from the following WCC courses:

| Code | Title | Credits |
|---------|---|---------|
| BIO 161 | General Biology I Ecology and Evolution | 4 |
| BIO 162 | General Biology II Cells and Molecules | 4 |
| BIO 208 | Genetics | 4 |
| BIO 215 | Cell and Molecular Biology | 4 |
| BIO 227 | Biology of Animals | 4 |
| CEM 105 | Fundamentals of Chemistry | 4 |
| CEM 111 | General Chemistry I | 4 |
| CEM 122 | General Chemistry II | 4 |
| CEM 140 | Organic Biochemistry | 4 |
| CEM 211 | Organic Chemistry I | 4 |
| CEM 222 | Organic Chemistry II | 4 |
| ENV 101 | Introduction to Environmental Science | 4 |
| ENV 105 | Introduction to Environment and Society | 3 |
| GLG 100 | Introduction to Earth Science | 4 |
| GLG 103 | Field Geology | 3 |
| GLG 104 | Weather | 4 |
| GLG 114 | Physical Geology | 4 |

| GLG 276 | Principles of Geographic Information Systems | 3 |
|---------|---|---|
| MTH 191 | Calculus I | 5 |
| MTH 192 | Calculus II | 4 |
| MTH 197 | Linear Algebra | 4 |
| MTH 293 | Calculus III | 4 |
| MTH 295 | Differential Equations | 4 |
| PHY 111 | General Physics I | 4 |
| PHY 122 | General Physics II | 4 |
| PHY 211 | Analytical Physics I | 5 |
| PHY 222 | Analytical Physics II | 5 |

Concentration 2

Complete a second concentration. Select 9 credits from no more than two disciplines listed below (A minimum of 3 credits at the 200 level is strongly recommended). Select from Anthropology, Arabic, Art, Astronomy, Biology, Chemistry, Chinese, Communication, Computer Information Systems, Computer Networking Technology, Computer Science, Computer Systems Security, Computer Systems Technology, Criminal Justice, Dance, Drama, Economics, English, Environmental Science, French, Geography, Geology, German, Health Science, History, Humanities, Math, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Spanish.

| Course | Title | Credits |
|--|-------------------------------------|---------|
| First Semester | | |
| ENG 111 | Composition I | 4 |
| Nat. Sci. Elective(s) (https://coursecatalog.wccnet.edu/ academics/general-education/#naturalsci) ¹ | | |
| Soc. Sci. Elective(s) (https://coursecatalog.wccnet.edu/ academics/general-education/#socbehavsci) ¹ | | |
| Concentration 2 course | | |
| Math/Science Concentration course | | |
| | Credits | 16 |
| Second Semester | | |
| MTH 191 | Calculus I (or higher) | 5 |
| Arts/Human. Elective(s) (https://coursecatalog.wccnet.edu/ academics/general-education/#arthuma) ¹ | | |
| Speech/Comp. Elective(s) (https://coursecatalog.wccnet.edu/ academics/general-education/#writing) ¹ | | |
| Math/Science conce | entration course | 3 |
| | Credits | 14 |
| Third Semester | | |
| Nat. Sci. Lab Elective(s) (https://coursecatalog.wccnet.edu/ academics/general-education/#natscilab) ¹ | | |
| Concentration 2 cou | irse | 3 |
| Math/Science conce | entration course | 3 |
| Math/Science conce | entration course | 3 |
| Open Elective(s) to r | each a minimum of 60 total credits. | 3 |
| | Credits | 15 |
| Fourth Semester | | |
| Arts/Human. Elective(s) (https://coursecatalog.wccnet.edu/ academics/general-education/#arthuma) ¹ | | |
| Soc. Sci. Elective(s) (https://coursecatalog.wccnet.edu/ academics/general-education/#socbehavsci) ¹ | | |
| Concentration 2 course | | |

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| Math/Science concentration course | |
|---|----|
| General Education and/or open elective(s) to reach a minimum of 30 General Education and 60 total credits. ¹ | |
| Credits | 15 |
| Total Credits | 60 |

¹ Courses used to meet General Education Requirements cannot be counted toward the minimum credits for the concentrations.