



Prerequisite Coursework for Admission to the MAT Program: **Science Endorsement**

Is a degree in Science required? Applicants must hold a baccalaureate degree with a major in the endorsement area (or coursework equivalent to a major in the endorsement area). Majors not aligned directly with endorsement areas will be evaluated and aligned.

Required Coursework in Science:

Note- Some Environmental and Earth Science Degrees align well with Integrated Science, some do not.

The ideal candidate will have 60 quarter credits (15 credits each) of Science distributed among the following four areas:

- Biology with labs, one year
- Chemistry with labs, one year
- Physics with labs, one year (algebra based is accepted)
- Earth Science: one year Geology with labs

Additionally: Earth and Space Science one course each:

Meteorology • Astronomy • Oceanography

Biology:

The ideal candidate will have satisfied the following requirements:

- One year of general biology
- Plant Diversity/ Field study
- Animal Diversity/Field study
- **Genetics - required**
- **Evolution - required**



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- Ecology - required
- Cell or Molecular Biology - required
- Physiology
- Microbiology
- One year of Chemistry with lab
- Statistics

Chemistry:

The ideal candidate will have satisfied the following course requirements:

- One year of General Chemistry with Lab
- One year of Organic Chemistry with Lab
- Analytical Chemistry with Lab
- Instrumental Chemistry with Lab
- Physical Chemistry
- Computer Applications in Chemistry
- Chemical Literature and Writing
- Ten upper division Chemistry elective credits,
- Math through Calculus

Physics: *Note- Some Engineering Degrees align well with Physics. Some do not.*

The ideal candidate will have satisfied the following requirements:

- Calculus based General Physics: one year, with lab
- Modern Physics with lab
- Computational Physics
- Classical mechanics
- Thermodynamics
- Mathematical Methods for the Physical Sciences
- Quantum Physics



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- Electricity and Magnetism
- Calculus
- Linear Algebra

Are there other requirements besides coursework that need to be met, specific to your discipline? Each science endorsement area has its own requirements. Candidate's transcripts will be evaluated for a best fit if they do not hold a degree in one of the four science endorsement areas.

Contact:

Science Endorsement:

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