## General Education Requirements

### American Institutions
- Complete two courses from the following (one must be HIST)
  - HIST 120 United States History to 1865
  - HIST 121 United States History since 1865
  - POLS 135 Introduction to Political Science
  - POLS 136 Introduction to American National Politics
  - POLS 137 Introduction to State and Local Politics

### Communications
- ENGL 101 Composition and Reading I
- ENGL 102 Composition and Reading II
- SPDR 100 Fundamentals of Speech

### Mathematics
- MATH 180 Analytical Geometry and Calculus I

### Humanities
- 3 courses, 3 areas of study, 1 course must be Lit. or Phil.
- Art History or ART 108
- Foreign Language 101 or higher or SIGN 101 or 102
- HUMAN (any course)

### Natural Sciences
- 2 courses, 1 biological and 1 physical
- BIOL - Must include laboratory
- PHYS 220 Engineering Physics I

### Social Sciences
- 2 courses, 2 areas of study
- ECON (any course)
- GEOG (excluding 104 and 110)
- HIST (any course)
- POLS (any course)
- PSYC (any course)
- SOCI or ANTH (any course)

### Total General Education Courses
- 42 credits

### Electives
- 12-17 credits - The following courses are required for the B.S. and should be included in selection of electives. If not taken at MCC, must be taken at UCM.
- CHEM 111 General College Chemistry I
- PHYS 221 Engineering Physics II

### Free Electives
- 19-20 credits

### Minimum Credits Required
- 124 credits

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## Major Requirements

### Bachelor of Science in Physics

### Years 3 and 4 at UCM

### Integrative Studies (must be taken at UCM)
- 3 credits

### Physical Science Major
- PHYS 3080 Adv. Physics Lab
- PHYS 3311 Electric Circuit Theory
- PHYS 3312 Modern Physics I
- PHYS 3512 Modern Physics II
- PHYS 4212 Analytical Mechanics II
- PHYS 4312 Electricity & Magnetism
- PHYS 4411 Thermodynamics
- MATH 1152 Calculus & Analy Geometry II
- MATH 2153 Analy Geometry & Calculus III
- MATH 3151 Differential Equations
- MATH 3160 Advanced Applied Calculus
- CHEM 1132 General Chemistry II
- Departmentally approved electives from the following:
  - PHYS 2020 Anal Methods for Phy and Eng (3 Cr.)
  - PHYS 3611 Optics (3 Cr.)
  - PHYS 4512 Introduction to Quantum Mechanics (3 Cr.)
  - PHYS 4513 Solid State Physics (3 Cr.)
  - PHYS 4711 Atomic & Nuclear Physics (3 Cr.)

### Free Electives
- 19-20 credits

### Minimum Credits Required
- 124 credits

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Students must complete a Writing Intensive course AND either a Human Diversity course or Learning Community as part of the General Education Requirements.

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Revised: 7/2007