### Science & Math MINORS (2015-2016)

For more info on these minors, prerequisites & course descriptions, please refer to the current JU Academic Catalog

---

**BIOLOGY**
- BIOL 170/L Intro Ecology/Evolution 4 hours
- BIOL 204 Botany 4
- BIOL 207 Zoology 4
- BIOL 208 Intro Cellular/Molecular Bio 4
- BIOL xxx Two additional BIOL courses numbered 300 and above for minimum total of 20-credit hours.

**CHEMISTRY**
- CHEM 103 General Chemistry I 4 hours
- CHEM 104 General Chemistry II 4
- CHEM 222 Analytical Chemistry 4
- CHEM xxx Two CHEM courses numbered above 300 for minimum of 20 credit hours.

**COMPUTING SCIENCE**
- CS 158 Application Development I 4 hours
- CS 160 Application Development II 4
- CS 360 Database Design & Devel'mt 3
- CS xxx Additional six (6) credit hours of CS course electives -- (three (3) credit hours numbered 300 or above)

**MATHEMATICS**
- MATH 220WI Math & Reasoning 3 hours
- MATH 300 Calculus III 4
- MATH 3xx At least six additional credit hours in mathematics courses numbered above 300
- MATH xxx Additional 5 credit hours in mathematics courses

**MARINE SCIENCE**
- MSC 101 Intro to Marine Science 4 hours
- BIOL 204 Botany 4
- BIOL 207 Zoology 4
- BIOL 208 Intro Cellular/Molecular Bio 4
- MSC xxx Two additional MSC courses numbered 300 and above, one of which must be MSC 307, 308, or 406, for minimum total of 20 credit hours.

**APPLIED MATHEMATICS**
- MATH 300 Calculus III 4 hours
- MATH 320 Linear Algebra 3
- MATH 331 Differential Equations 3
- MATH 3xx At least three additional credit hours in mathematics courses numbered above 300
- MATH xxx Additional 5 credit hours in mathematics courses

**PHYSICS**
- PHYS 101 Freshman Physics Seminar 1 hour
- PHYS 151 Gen Phys: Mechanics 4
- PHYS 152 Gen Phys: Elec/Magnetism 4
- PHYS 250RI Research Methods in Phys 2
- PHYS xxx Additional six credit hours of physics courses numbered 200 or higher for a minimum of 17 credit hours.

---

**Total:**
- **Science & Math MINORS (2015-2016):**
  - **BIOLOGY** 20 hours
  - **CHEMISTRY** 20 hours
  - **COMPUTING SCIENCE** 17 hours
  - **MATHEMATICS** 18 hours
  - **MARINE SCIENCE** 20 hours
  - **APPLIED MATHEMATICS** 18 hours
  - **PHYSICS** 17 hours