# Physics BS Major Checklist 2010-2011

**Student**_____ **Advisor**_____

**Date Major declared:**_____ **Double Major? Yes (Dept: _____) No**

| Course | Term Taken | Hours | Grade |
|---|---|---|---|
| PHYS 201 General Physics I (MATH 151 co-req); offered each fall | soph | 4 | |
| PHYS 202 General Physics II (MATH 151 co-req); offered each spring | soph | 4 | |
| PHYS 321 Analytical Mechanics (Prereq: 201-202); offered each fall | junior | 3 | |
| PHYS 361 Electronics (Prereq: 201-202); offered each fall | junior | 4 | |
| PHYS 311 Modern Physics (Prereq: 201-202); offered each spring | junior | 4 | |
| PHYS 411 Electromagnetic Thy (Prereq: 202; MATH 253); offered each fall | senior | 3 | |
| PHYS 421 Quantum Mechanics (Pre: 311,321,411; MATH 353); offered each spring | senior | 3 | |
| PHYS Elective | | 3 or 4 | |
| PHYS Elective | | 3 or 4 | |
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| | | | |
| **Additional Requirements: Contextual and Support Courses** | | | |
| CHEM 111 General Chemistry I | | 4 | |
| CHEM 112 General Chemistry II | | 4 | |
| CHEM 312 Physical Chemistry I | | 4 | |
| CHEM 211 Organic Chemistry I; 212 Organic Chemistry II; 221 Analystical Chemistry; 313 Physical Chemistry II; 411 Inorganic Chemistry or 422 Instrumental Analysis | | 4 | |
| CHEM 211 Organic Chemistry I; 212 Organic Chemistry II; 221 Analystical Chemistry; 313 Physical Chemistry II; 411 Inorganic Chemistry or 422 Instrumental Analysis | | 4 | |
| MATH 321 Linear Algebra | | 3 | |
| MATH 360 Mathematical Probability and Statistics | | 3 | |
| MATH 440 Mathematical Modeling | | 3 | |
| MATH 451 Real Variable Theory | | 3 | |
| MATH 45 | | 3 | |
| MATH 473 Numerical Analysis | | 3 | |
| | | | |
| **Math Requirement: 151, 152, 253, and 353** | | | |

**Possible Elective Courses** and **tentative** frequency of offering/**tentative** term the course will be taught next:
PHYS 285-288 Research (Prereq: 202 and permission) (on demand)
PHYS 440 Astrophysics (every other year -- 2011SP)
PHYS 451 Advanced Lab (On demand)
PHYS 460 Independent Study
PHYS 470 Internship