

# MINOR IN APPLIED PHYSICS

## CHECK LIST

STUDENT NAME \_\_\_\_\_ ADVISOR NAME \_\_\_\_\_

REQUIREMENTS: 18 CREDIT HOURS WITH GRADES OF C OR BETTER WITH AT LEAST 12 CORE CREDIT HOURS UNIQUE TO THE MINOR.

	SEMESTER PLANNED	SEMESTER TAKEN	GRADE
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### CORE REQUIREMENTS (12-14 CREDIT HOURS):

PHYS 100 Physics for the Modern World (3) AND PHYS 200 Physics for the New Millennium (3)  
- OR - PHYS 110 University Physics I (4) AND PHYS 210 University Physics II (4)

1. _____	_____	_____	_____
2. _____	_____	_____	_____

PHYS 220 Astronomy (3) - OR - PHYS 230 Changing Views of the Universe (3)

3. _____	_____	_____	_____
4. PHYS 370 Modern Physics (3)	_____	_____	_____

### ELECTIVES (6 CREDIT HOURS AT THE 300 LEVEL OR ABOVE, INCLUDING COURSES OUTSIDE OF PHYSICS IN RELEVANT AREAS OF TECHNOLOGY, SOCIETY, AND POLICY, AS APPROVED BY THE DEPARTMENT):

5. _____	_____	_____	_____
6. _____	_____	_____	_____

Electives can be chosen from the following list of suggested courses on physics or topics related to careers that are enhanced by knowledge of physics. Alternate elective courses may be chosen with the approval of the Department of Computer Science, Audio Technology, and Physics. Students opting to take an elective course(s) during a study abroad semester can do so with prior approval of the department. Note that for a course taken abroad to be approved, a detailed course syllabus that includes number of credit hours, contact hours, and whether or not the course has a lab component needs to be provided.

#### FOUNDATIONS IN PHYSICS

- PHYS 365 Waves and Optics (3)
- PHYS 430 Mechanics (3)
- PHYS 440 Experimental Physics (3)
- PHYS 450 Electricity and Magnetism (3)
- PHYS 470 Introduction to Quantum Mechanics (3)

#### APPLIED PHYSICS AND TECHNOLOGY

- PHYS 305 Acoustics (3)
- PHYS 312 Electronics I (3)
- PHYS 322 Electronics I Laboratory (1)
- PHYS 313 Electronics II (3)
- PHYS 323 Electronics II Laboratory (1)
- CSC 330 Organization of Computer Systems (3)
- CSC 432 Simulation and Modeling (3)
- ENVS 580 Environmental Science I: A Quantitative Approach (3)
- PHYS 391 Internship (3)

- COMM 325 Feature Article Writing (3)
- EDU 519 The Uses of Technology in Education (3)
- HIST 363 American Culture in the Nuclear Age (3)
- PHIL 301 Modern Philosophy (3)
- PHIL 302 Nineteenth Century Philosophy (3)
- PHIL 303 Twentieth Century Philosophy (3)
- SIS 586 Technology, Security, and Warfare (3)
- SOCY 350 Social Problems in a Changing World (3)

#### PHYSICS AND ORGANIZATIONS

- ECON 322 Introduction to Econometrics (3)
- ECON 379 Economics of Environmental Policy (3)
- FIN 464 Financial Markets and Institutions (3)
- GOVT 321 Congress and Legislative Behavior (3)
- MGMT 423 Managing Change and Innovations (3)
- PUAD 343 Governmental Management (3)
- SIS 384 American Defense and Security Policy (3)

#### PHYSICS AND SOCIETY