



## ADVANCED PHYSICS ELECTIVES OR CONCENTRATION

Select *either* the advanced physics electives *or* one of the concentrations.

### Advanced Physics Electives

Select one of the following: PHYS 424 or MATH 418.

In addition, select courses at the 300 or 400 level with the prefixes PHYS, MATH, STAT or CSC. One of the following may also be chosen: CSC 101, 231, 234. At least 9 of these elective units must have the PHYS prefix. All courses must be taken for a letter grade.

For students anticipating an industrial career  
PHYS 357, 412, 413, 423, and 452 are suggested electives.

For students anticipating graduate work in physics  
PHYS 401, 406, 409, 424, and MATH 408 are suggested electives. In addition, PHYS 357 is suggested for students who anticipate becoming experimental physicists.

---

19

### Electronics Concentration

Students will not be allowed to enroll in EE 228 until they have a) completed PHYS 357 and MATH 344, and b) received the approval of advisors in both Physics and Electrical Engineering. Students will then be allowed to enroll in EE courses with physics courses substituting for EE prerequisites.

PHYS 357 Advanced Instrumentation in Experimental Physics .....	3
EE 228 Continuous-Time Signals and Systems .....	4
EE 302 Classic Control Systems .....	3
EE 307 Digital Integrated Electronics .....	3
EE 368 Signals and Systems Laboratory .....	1
EE 342 Classical Control Systems Laboratory .....	1
EE 347 Semiconductor Device Electronics Lab .....	1
EE electives to be selected from the following list: .....	6
EE 308, 313, 328, 348, 409, 449, 353	

---

21

### Electro-optics Concentration

Students will not be allowed to enroll in EE 228 until they have a) completed PHYS 357 and MATH 344, and b) received approval of advisors in both Physics and Electrical Engineering. Students will then be allowed to enroll in EE courses with physics courses substituting for EE prerequisites.

PHYS 357 Advanced Instrumentation in Exp Physics	3
PHYS 423 Advanced Optics .....	4
EE 228 Continuous-Time Signals and Systems .....	4
EE 368 Signals and Systems Laboratory .....	1
EE 403 Fiber Optics Communication .....	3
EE 418 Photonic Engineering .....	3
EE 458 Photonic Engineering Laboratory .....	1
Electives to be selected from the following list: .....	3
EE 302, 307, 314, 328. EE 342, 443 are recommended additional courses.	

---

21