

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 (3) *or* MATH 418 (4).

In addition, select courses at the 300 or 400 level with the prefixes PHYS, MATH, GEOL, STAT, or CSC (but not CSC 302 nor CSC 310). One of the following may also be chosen: CSC 101 (4), 231 (2), 234 (3). 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 (3), 412 (3), 413 (3), 423 (4), and 452 (1) are suggested electives.

For students anticipating graduate work in physics PHYS 303 (3), 401 (3), 406 (3), 409 (3), 424 (3), and MATH 408 (4) are suggested electives. In addition, PHYS 357 (3) is suggested for students who anticipate becoming experimental physicists.

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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.

EE 228 Continuous-Time Signals & Systems	4
EE 302 Classic Control Systems	3
EE 328 Discrete Time Signals & Systems.....	3
EE 342 Classical Control Systems Lab	1
EE 368 Signals & Systems Lab	1
EE 336 <i>or</i> EE 306 & EE 346	4
PHYS 357 Advanced Instru in Experi Physics.....	3
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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.

EE 228 Continuous-Time Signals & Systems	4
EE 403 Fiber Optics Communication.....	3
EE 418 Photonic Engineering.....	3
EE 443 Fiber Optics Lab	1
EE 458 Photonic Engineering Lab.....	1
PHYS 357 Advanced Instru in Experi Physics.....	3