



Physics Dual Major for CEAS Students

Required courses for the physics dual major	Course(s) in CEAS degree programs that will satisfy requirement	Programs in CEAS that require this course
Physics 209, Physics I (Calculus Treatment)	Physics 209	All Engineering Majors
Physics 210, Physics II (Calculus Treatment)	Physics 210	All Engineering Majors
Physics 214, Lab Physics I (Calculus Treatment)	Physics 214	MatlEng, MechEng
Physics 215, Lab Physics II (Calculus Treatment)	Physics 215	MatlEng, MechEng
Physics 270, Intro. to Computational Physics or Physics 370, Computational Physics	Civ Eng 280, CompSci 151, CompSci 201	All Majors require at least one of these
Physics 317, Thermodynamics	MechEng 301	CivEng, ElecEng, IndEng, MatlEng, MechEng
Physics 411, Mechanics	Civ Eng 201 and Civ Eng 202	CivEng, ElecEng, IndEng, MatlEng, MechEng
Physics 309, Modern Physics	None	None
Physics 420, Electricity and Magnetism I	None	None
Physics 422, Electricity and Magnetism II	None	None
Physics 441, Introduction to Quantum Mechanics	None	None
Physics 400 Level Lab (select from 406, 408, 409, 410, 670)	None	None

- *Math 321, Vector Analysis, must be completed. It serves as a co-requisite to Physics 441 and as a prerequisite for Physics 420 and 422.*
- *Some of the upper level courses that are required in the physics dual major, but are not required in CEAS programs, can be applied toward technical elective credits in some of the CEAS programs.*

For more information on the physics major requirements, please contact:

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For more information on how to blend the physics and CEAS major requirements, please contact:

CEAS Advising Office, ceas-adv@uwm.edu, 414-229-4667, EMS E386

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