

Physics and Engineering Transition Documentation

Starting Fall 2017, the Physics and Engineering Department has renumbered their courses. The chart below states the previous course code, new course code, the course title, and the pre-requisites for each of the courses. Notice the course titles are listed instead of the course numbers in the prerequisites column for other Engineering and Physics courses.

Utilize the chart to make sure you do not enroll in a course you have previously taken when registering. If you are repeating a course, please complete the Course Repeat Form that can be found [here](#). For example, if you have previously taken PHY 103, you cannot take PHY 101. If you have taken PHY 302, you cannot take PHY 312.

If you have any questions about registration or the materials below, please contact either the Physics and Engineering Department (physics@etown.edu; x1392), or the Registration and Records Office (regandrec@etown.edu; x1409).

Course Title	Previous Course Code	Starting Fall 2017 Course Code	Prerequisites
Introduction to Engineering I	EGR 100	EGR 191	
Introduction to Engineering II	EGR 110	EGR 192	Intro to Engineering I
Circuit Analysis	EGR 210	EGR 210	College Physics II and MA 121
Electronics	EGR 220	EGR 311	Circuit Analysis
Systems Programming (CS 222)	EGR 222	EGR 222	CS 122
Microcomputer Architecture (CS 230)	EGR 230	EGR 230	CS 121
Introduction to Environmental Engineering	EGR 248	EGR 251	CH 105
Quantitative Methods/Operations Management (BA 248)	EGR 248	EGR 248	MA 251
Statics	EGR 262	EGR 260	College Physics I and MA 121
Dynamics	EGR 263	EGR 360	College Physics I and MA 121
Strength in Materials	EGR 264	EGR 264	Statics and MA 222
Environmental Site Engineering and Design	EGR 275	EGR 256	College Physics I
Sustainable Resource Engineering and Design	EGR 276	EGR 255	Circuit Analysis
Engineering Research/Project	EGR 280	EGR 280	
Sophomore Project	EGR 291	EGR 291	
Electromagnetism (PHY 312)	EGR 302	EGR 312	College Physics I and MA 222
Signals and Systems	EGR 310	EGR 310	College Physics II and MA 222

Communication Theory	EGR 315	EGR 315	Signals and Systems and MA 222
Thermodynamics	EGR 321	EGR 467	Introductory Mathematics for Physics and MA 222
Computer Organization and Architecture (CS 332)	EGR 332	EGR 332	CS 121
Digital Circuits and Computer Interfacing (CS 333)	EGR 333	EGR 333	CS/EGR 332
Green Architectural Engineering	EGR 343	EGR 353	College Physics I
Physics of Semiconductor Devices	EGR 351	EGR 317	College Physics II
Fiber Optics Communication Systems	EGR 352	EGR 318	Circuit Analysis
Applied Quantum Mechanics/Advanced Topics in Applied Physics (PHY 361)	EGR 361	EGR 361	
Fluid Mechanics and Hydrology	EGR 365	EGR 368	Statics and MA 222
Introductory Heat Transfer	EGR 367	EGR 468	Fluid Mechanics and Hydrology, Thermodynamics, and MA 321
Special Topics in Engineering	EGR 370-378	EGR 370-378	
Fall seminar	EGR 395	EGR 395	
Spring seminar	EGR 396	EGR 396	
Engineering Portfolio	EGR 400	EGR 400	
Control Systems	EGR 410	EGR 410	Signals and Systems
Current Industrial Engineering Methods	EGR 411	EGR 341	
Operating Systems (CS 422)	EGR 422	EGR 422	CS/EGR 222 and CS/EGR 322
Advanced Computer Engineering	EGR 433	EGR 433	CS/EGR 332
Green Robotics, Automation, and Machine Intelligence	EGR 434	EGR 434	CS 121 and MA 121
Analytical Mechanics and Vibrations	EGR 463	EGR 463	Dynamics and MA 321
Internship in Engineering	EGR 470-474	EGR 470-474	
Engineering Co-Op	EGR 475	EGR 475	
Independent Study in Engineering	EGR 480-489	EGR 480-489	
Senior Project in Engineering I	EGR 491	EGR 491	
Senior Project in Engineering II	EGR 492	EGR 492	
Architectural Design Studio I (ART 499A)	EGR 499A	EGR 499A	
Architectural Design Studio II (ART 499B)	EGR 499B	EGR 499B	
General Physics I	PHY 103	PHY 101	
General Physics II	PHY 104	PHY 102	General Physics I

NPS How Things Work	PHY 105	PHY 105	
College Physics I	PHY 200	PHY 201	
College Physics II	PHY 201	PHY 202	College Physics I
College Physics III	PHY 202	PHY 203	College Physics I and MA 121
Modern Physics	PHY 221	PHY 221	College Physics I and MA 121
Electromagnetism (EGR312)	PHY 302	PHY 312	College Physics I and MA 121
Applied Quantum Mechanics/Advanced Topics in Applied Physics (EGR 361)	PHY 361	PHY 361	
Special Topics in Physics	PHY 370-378	PHY 370-378	
General Relativity	PHY 423	PHY 423	MA 122 and MA 321
Independent Study in Physics	PHY 480-489	PHY 480-489	
Physics Research I	PHY 491	PHY 491	
Physics Research II	PHY 492	PHY 492	
Introductory Mathematics for Physics		PHY 120	
Analytics for Supply Chain Operations (BA 347)		EGR 347	Quantitative Methods/Operations Management or MA 251
Fundamentals of Process Improvement		EGR 345	MA 251
Water and Wastewater Engineering		EGR 351	CH 105
Introduction to Manufacturing Processes		EGR 348	College Physics I