Sample schedule for BS in physics (applied and engineering physics concentration) for transfer students

This sample schedule assumes that the student has already taken the equivalent of MATH 113, 114, 213, 214; PHYS 160, 161, 260, 261 and has completed the lower-level Mason core requirements.

Number of credits in parentheses. Courses designated “Elective” are entirely at the student's discretion. At least 45 credits must be upper-level (300 or above). This sample schedule satisfies this requirement.

Students who are not completing a second major take 9 credits of physics and astronomy electives. In this sample schedule, ASTR 210, PHYS 306, and PHYS 412 are selected. Other options are possible, but note that most physics and astronomy courses are offered only in fall or only in spring (and sometimes only every other year). The tentative course offering schedule for future semesters can be found here: http://physics.gmu.edu/~joe/course-schedule.pdf

Fall of Year 1 (15)

PHYS 251	(3)	Intro to Computer Techniques in Physics
PHYS 262	(3)	University Physics III
PHYS 301	(3)	Analytical Methods of Physics
PHYS 303	(3)	Classical Mechanics
PHYS 305	(3)	Electromagnetic Theory

Spring of Year 1 (15)

PHYS 306	(3)	Wave Motion and Electromagnetic Radiation
PHYS 307	(3)	Thermal Physics
PHYS 312	(3)	Waves and Optics
PHYS 325	(3)	Intermediate Computer Methods in Physics
PHYS 402	(3)	Introduction to Quantum Mechanics and Atomic Physics

Fall of Year 2 (16)

PHYS 311	(3)	Instrumentation
PHYS 403	(3)	Quantum Mechanics II
PHYS 410	(4)	Computational Physics Capstone
PHYS 408	(3)	Senior Research
ECE 415	(3)	Power System Analysis

Spring of Year 2 (15)

PHYS 409	(3)	Internship
PHYS 412	(3)	Solid State Physics and Applications
MATH 203	(3)	Linear Algebra
ECE 416	(3)	Electric Machinery and Modern Applications
ENGH 302	(3)	Advanced Composition