

Academic Programs at the Daytona Beach Campus

Accelerated Program in Engineering Physics

Bachelor of Science in Engineering Physics

Master of Science in Engineering Physics

The accelerated program allows exceptional students to complete both the Bachelor of Science in Engineering Physics (BSEP) and Master of Science in Engineering Physics (MSEP) degrees. Students enrolled in the BSEP program may apply for entry into the accelerated program when they attain junior standing. Students must have a minimum CGPA of 3.2 in EP/ES/MA/PS courses for selection.

Degree Requirements

Students in this program must meet the following requirements:

- Maintain at least a 3.0 CGPA throughout the academic program.
- Maintain at least a 3.0 CGPA for the graduate credits.
- Complete a total of 151 credit hours as listed below.

FIRST YEAR

Course	Title	Credits
	Communication Theory and Skills	6
	Lower-Level Humanities	3
	Lower-Level Social Sciences	3
EGR 111	Engineering Drawing	2
EP 101	Current Topics in Space Sciences	1
MA 241	Calculus and Analytic Geometry I	4
MA 242	Calculus and Analytic Geometry II	4
PS 140	Chemistry for Engineers	4
PS 141	Chemistry for Engineers Laboratory	1
PS 215	Physics I	3
PS 216	Physics Laboratory I	1
Total Credits		32

SECOND YEAR

Course	Title	Credits
	Communication Theory and Skills	3
EGR 115	Introduction to Computing for Engineers	3
ES 201	Statics	3
ES 202	Solid Mechanics	3
ES 204	Dynamics	3
HU/SS	Upper-Level HU/SS Elective	3
MA 243	Calculus and Analytic Geometry III	4
MA 345	Differential Equations and Matrix Methods	4
PS 208	Physics II	3
PS 219	Physics III	3
PS 220	Physics Laboratory III	1
PS 290	Physics Laboratory Practicum	0
Total Credits		33

THIRD YEAR

Course	Title	Credits
EP 320	Electro-Optical Engineering	3
EP 340	Introduction to Space Systems Design	2
EP 393	Spaceflight Dynamics	2
EP 394	Space Systems Engineering	3
EP 501	Numerical Methods for Engineers & Scientists	3
ES 206	Fluid Mechanics	3
ES 305	Thermodynamics	3
MA 441	Mathematical Methods for Engineering & Physics I	3
MA 502	Boundary Value Problems	3
PS 303	Modern Physics	3
PS 305	Modern Physics Laboratory	1
PS 320	Classical Mechanics	3
Total Credits		32

SUMMER SESSION

Course	Title	Credits
HU/SS	Upper-Level HU/SS Elective	3
ES 320	Engineering Materials Science	2
ES 321	Engineering Materials Science Lab	1
EE 335	Electrical Engineering I	2
EE 336	Electrical Engineering I Laboratory	1
Total Credits		9

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FOURTH YEAR

Course Title	Credits
EP 505 Advanced Spacecraft Dynamics & Control	3
EP 5XX Graduate Elective	3
EP 391 Microcomputers and Electronic Instrumentation.	3
EP 410 Space Physics.	3
EP 440 Engineering Electricity and Magnetism . . 3	3
EP 455 Quantum Physics	3
EP 496 Space Systems Design I	2
EP 497 Space Systems Design II	3
ME 200 Machine Shop Laboratory.	1
Total Credits	24
TOTAL DEGREE CREDITS	130

GRADUATE-LEVEL STUDIES

Course Title	Credits
EP 509 Advanced Space Physics	3
EP 600 Experimental Methods in Space Science. . 3	3
EP 605 Spacecraft Power & Thermal Design. . . . 3	3

Option I - Thesis

Course Title	Credits
EP 700 Thesis	9
-AND- Graduate Elective	3

Option II - Non-Thesis

Course Title	Credits
Graduate Electives	12
Total Credits	21
TOTAL BS/MS DEGREE CREDITS	151