

# Physics B.A./B.S. with Emphasis in Entrepreneurship

The Physics with Emphasis in Entrepreneurship degree program is designed for those who plan to use their physics degree to launch a tech startup company, or just to strategically position themselves for key positions in such companies.

Recommended elective courses include, but are not limited to: ENG 333: Advanced Writing - Non Fiction, ENG 341: Technical Writing, MATH 335: Linear Algebra, MATH 315: Differential Equations, PHIL 360: General Ethics, PSY 404: Organizational Psychology, TMGT 350: Principles of Technology

Management, or any advanced PHYS/MATH/CHEM/BSC/ENVS courses.

## Core Curriculum Courses

See the Core Curriculum Requirements (<http://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

## Required courses in the major

PHYS 101	Physics and Astronomy Seminar	1
PHYS 2425	University Physics I	4
PHYS 2426	University Physics II	4
PHYS 317	Mathematical Methods for Physics and Engineering	3
PHYS 319	Computational Physics with Python	3
PHYS 321	Modern Physics	3
PHYS 332	Electronics for Scientists and Engineers	4
PHYS 333	Wave Motion, Acoustics, and Optics	4
PHYS 335	Advanced Physics Laboratory	3
PHYS 401	Current Topics in Physics and Astronomy (1 sch. take twice for 2 sch)	2
PHYS 411	Classical Mechanics	3
PHYS 412	Electricity and Magnetism	3
PHYS 414	Thermodynamics and Kinetic Theory	3
PHYS 420	Quantum Mechanics	3

## Required courses for Emphasis

MGT 305	Principles of Management	3
Choose 5 from the following courses		15
FIN 420	Entrepreneurial Finance & Venture Capital	
MGT 308	Entrepreneurship	
MGT 390	Project Management	
MKT 436	Marketing Research	
MKT 497	Special Topics (Soc Media / Mkt Research / Family Bus)	

## Required support courses

CHEM 1111	General and Quantitative Chemistry Laboratory I	1
CHEM 1311	General and Quantitative Chemistry I *	
MATH 2413	Calculus I *	
MATH 2414	Calculus II	
MATH 2415	Calculus III	4

## Electives

Electives	12
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<b>Total Hours</b>	<b>120</b>
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This course should be taken to fulfill Core Curriculum Requirements.