



**LOYOLA  
UNIVERSITY  
CHICAGO**

*Preparing people to lead extraordinary lives*

## Undergraduate Academic Requirements Outlines

Please select a term:

2021-22 Catalog ▾

Submit Term

If no catalog year is selected, the default term will be the current academic year.

### View Academic Requirements by College or School

Majors in the Undergraduate College of Arts and Sciences Program ▾

See Choices

#### Undergraduate College of Arts & Sciences

Theoretical Phys/Applied Math BS (TPAM-BS) ▾

View Requirements

### THEORETICAL PHYSICS & APPLIED MATHEMATICS MAJOR TPAM-BS | UGRD 1216 | Fall 2021 |

#### TPAM-BS: THEORETICAL PHYSICS & APPLIED MATHEMATICS MAJOR

Minimum Units: 63

\* A minimum grade of C- must be earned to satisfy a course requirement and a 2.0 minimum overall GPA is required for each major or minor. Final confirmation of degree requirements is subject to department, school, and university approval.

REQUIRED PHYSICS		30 Units
Course	Course Description	Units
<b>Required Physics</b>		
PHYS 125	General Physics I Lec/Dis	4.00
PHYS 125L	General Physics Laboratory I	1.00
PHYS 126	General Physics II Lec/Dis	3.00
PHYS 126F	Freshman Projects	1.00
PHYS 126L	General Physics Laboratory II	1.00
PHYS 235	Modern Physics	3.00
PHYS 235L	Modern Physics Laboratory	1.00
PHYS 301	Mathematical Methods in Physics	3.00
PHYS 314	Theoretical Mechanics I	3.00
PHYS 328	Thermal Phys & Stat Mechanics	3.00
PHYS 338	Intermediate Physics Laboratory	1.00
PHYS 351	Electricity and Magnetism I	3.00
PHYS 361	Quantum Mechanics I	3.00
REQUIRED MATHEMATICS		30 Units
Course	Course Description	Units
<b>Required Mathematics</b>		
MATH 161	Calculus I	4.00
MATH 162	Calculus II	4.00
MATH 201	Introduction to Discrete Mathematics & Number Theory	3.00
MATH 212	Linear Algebra	3.00
MATH 263	Multivariable Calculus	4.00
MATH 264	Ordinary Differential Equations	3.00
MATH 313	Abstract Algebra	3.00
MATH 351	Introduction to Real Analysis I	3.00
MATH 353	Introductory Complex Analysis	3.00
COMPUTER SCIENCE		3 Units
Course	Course Description	Units
<b>Computer Science</b>		
PHYS 130	Introduction to Computational Physics	3.00

*This Academic Requirements Outline lists the approved courses for the plan of study during the indicated Catalog Year and is intended for use by prospective students. A current Loyola student's requirements are based on when the major or minor was officially declared, and may differ from what is shown here. Loyola students should refer to My Academic Requirements in LOCUS for their individualized lists of approved courses. Final confirmation of all degree requirements is subject to department, school, and university approval.*