



## BA in Physics – 2024-2025

Student Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

### Major Requirements

____	PHY 211	5	University Physics I
____	PHY 212	5	University Physics II
____	PHY 311	4	Modern Physics
____	PHY 321	3	Electricity and Magnetism
____	PHY 322	4	Waves and Physical Optics
____	PHY 330	2	Advanced Lab
____	PHY 341	3	Math Methods in Physics and Engineering
____	PHY 342	3	Analytical Mechanics
____	PHY 350	4	Thermodynamics and Statistical Mechanics
____	PHY 412	3	Quantum Mechanics
____	PHY 493	3	Physics Senior Capstone

### Select 8 hours from the following:

____	COS 121	4	Foundations of Computer Science
____	COS 243	3	Multi-tier Web Application Development
____	COS 265	4	Data Structures and Algorithms
____	COS 280	3	Introduction to Artificial Intelligence
____	COS 284	3	Introduction to Computer Systems
____	COS 326	3	Data Visualization
____	ENP 200-499	1-8	Engineering Physics Elective
____	MAT 311	3	Introduction to Data Science
____	MAT 345	4	Linear Algebra
____	PHY 201 <sup>‡</sup>	4	Introductory Astronomy
____	PHY 313	2	Nuclear Radiation Experimental Methods
____	PHY 370	1-4	Selected Topics ( <i>approved by advisor</i> )
____	PHY 393	2	Practicum
____	PHY 413	3	Quantum Mechanics II
____	PHY 441	3	Advanced Mathematical Methods in Physics
____	PHY 450	1-4	Directed Research
____	PHY 491	1	Preparation for the Physics GRE

<sup>‡</sup>Special lab section required. Please see catalog course description for more details.

### Additional Major Requirements

____	CHE 211	4	College Chemistry I
____	CHE 212	4	College Chemistry II
____	ENP 104	3	Introduction to Engineering and Software Tools
____	MAT 151	4	Calculus I
____	MAT 230	4	Calculus II
____	MAT 240	4	Calculus III
____	MAT 251	4	Differential Equations

### Select one course from the following:

____	COS 120	4	Introduction to Computational Problem Solving
____	COS 130	3	Computational Problem Solving for Engineers
____	SYS 120	4	Introduction to Problem Solving

**Total Major Hours Required: 77-78**

*Additional courses in computer science, systems, engineering, and mathematics are strongly recommended.*

### Language Requirement for BA Degree – Complete four courses in one language option.

Spanish  Hebrew  Greek  French  Chinese  Korean  Other: \_\_\_\_\_

____	____	101	4	Elementary I	____	GRK 201	4	Elementary New Testament Greek	____	HEB 211	3	Elementary Old Testament Hebrew I
____	____	102	4	Elementary II	____	GRK 202	4	Elementary New Testament Greek	____	HEB 212	3	Elementary Old Testament Hebrew II
____	____	201	3	Intermediate I	____	GRK 301	3	Greek Grammar and Syntax	____	HEB 311	3	Hebrew Syntax and Lexicography
____	____	202	3	Intermediate II	____	GRK 302	3	Exegesis of the Greek New Testament	____	HEB 312	3	Hebrew Exegesis

### Degree Requirements

- 128 minimum hours and 42 minimum upper-division hours (3XX/4XX course numbers).
- Fifty percent of the minimum hours must be completed at Taylor—64 hours.
- Fifty percent of the major/minor hours must be completed at Taylor.
- 22 of the last 30 hours earned must be completed at Taylor.
- Cumulative GPA of 2.0; major GPA of 2.3 (higher GPA may be required in certain curricula). (See current catalog for policy).
- All foundational core, major, minor, and proficiency requirements must be completed (including Senior Comprehensive Exam/Paper/Project).
- Two years of one foreign language is required for the BA degree.
- Candidates for 2 degrees must complete a minimum of 158 semester hours and meet all requirements for 2 different majors.