



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 413	3	Quantum Mechanics II
____	PHY 441	3	Advanced Mathematical Methods in Physics
____	PHY 491	1	Preparation for the Physics GRE
____	PHY 493	3	Physics Senior Capstone

Select one course from the following:

____	PHY 393	2	Practicum
____	PHY 450	2-4	Directed Research

Technical Electives

Select at least 8 hours from the following:

____	CHE 431	4	Physical Chemistry I
____	CHE 432	4	Physical Chemistry II
____	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 340	4	Advanced Calculus
____	MAT 352	4	Mathematical Statistics
____	MAT 382	3	Advanced Statistical Methods
____	MAT 455	3	Abstract Algebra
____	MAT 456	3	Advanced Algebra
____	MAT 461	3	Real Analysis
____	PHY 201 [‡]	4	Introductory Astronomy
____	PHY 300-499	1-8	Physics Elective

[‡]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
____	MAT 345	4	Linear Algebra

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: 90-93

____ Participation in a weekend retreat for all students in the department.

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.