

ACADEMIC ROADMAP

Physics BA v2

Fall 2024 (rev 3/19/24)

Freshman Year (30 credits)

FIRST SEMESTER

Course Title	Catalog Number	Prerequisite(s)
College Writing I 3cr	CWP 101	
University Physics I 5cr	PHY 111	Co-req is MAT 161 or MAT 126
Freshman Physics Seminar 1cr	PHY 189	
Calculus I 4cr OR	MAT 161	
Applied Calculus I 4cr	MAT 126	

SECOND SEMESTER

Course Title	Catalog Number	Prerequisite(s)
College Writing II 3cr	CWP 102	CWP 101
University Physics II 5cr	PHY 112	PHY 111
Fund. Chemistry I + lab (3+1)cr	CHE 111 + CHE 113	
Calculus II 4cr OR	MAT 162	MAT 161
OR Applied Calculus II 4cr	MAT 127	MAT126

Notes and recommendations:

Attend at least one faculty office hour; visit Academic Commons (Math & Writing Centers, tutoring); meet with your Physics advisor and view your degree audit sheet in Degree Works. Minors can push CHE back several semesters.

Sophomore Year (60 credits)

THIRD SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Univ Physics III + Lab (3+1)cr	PHY 213 + PHY 214	PHY 108 or PHY112
Fund. Chemistry II + L (3+1)cr	CHE 112 + CHE 114	CHE 111

FOURTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Modern Physics I 3cr	PHY 305	(PHY 108 or PHY 112) + CHE 112

Notes and recommendations:

Form a study group; consider enrolling in a minor or certificate program; meet with your Physics advisor and view your degree audit sheet in Degree Works. Consider undergraduate research. Minors can push back Modern Physics 305 if necessary.

Junior Year (90 credits)

FIFTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Modern Physics II + Lab (3+1)cr	PHY 306 + PHY 307	PHY 305

SIXTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Electric Circuits or Other PHY	PHY 324 or PHY 3xx	PHY 108 or PHY 112
Computational Phy Lab (3) OR	PHY 310	PHY108 or 112; MAT162 or 127
Intro Theoretical Phy (3)	PHY 320	PHY108 or 112; MAT162 or 127

Notes and recommendations:

Visit the Career and Professional Education Center; meet with your Physics advisor and view your degree audit sheet in Degree Works; talk to your faculty advisor about graduate school options. Minors can push back Modern Physics 305/306/307 if necessary, or take PHY324 or other PHY3xx earlier.

Senior Year (120 credits)

SEVENTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Electric Circuits or Other PHY	PHY324 or PHY 3xx	PHY 108 or PHY112

EIGHTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Computational Phy Lab (3) OR	PHY 310	PHY108 or 112; MAT162 or 127
Intro Theoretical Phy (3)	PHY 320	PHY108 or 112; MAT162 or 127

Notes and recommendations:

Final meeting with your Physics advisor and view your degree audit sheet in Degree Works for graduation. Apply for graduation; apply to graduate school, if applicable; visit the Career and Professional Education Center to have your resume reviewed. Minors may use undergraduate research PHY 495 or other PHY3xx/4xx in place of PHY324.