

Sample Four-Year Schedule for Physics Major

Bachelor of Science

Curriculum for students starting 2024-2025 Academic Year

Freshman			
Fall Semester		Spring Semester	
WU 101 – Washburn Experience	3	PS 281 – General Physics I	5
EN 101 – Introductory College Writing	3	MA 152 – Calculus & Analytic Geometry II	5
MA 151 – Calculus & Analytic Geometry I	5	CH 151 – General Chemistry I	5
PS 103 – Physics and Engineering Seminar I	1		
CM 111 – Intro. To Structured Programming	4		
TOTAL	16		15
Sophomore			
Fall Semester		Spring Semester	
PS 282 – General Physics II	5	PS 320 – Electromagnetic Theory I	3
MA 253 – Calculus & Analytic Geometry III	3	PS 334 – Thermodynamics	3
EN 200 – Intermediate College Writing	3	MA 331 – Differential Equations	3
Social Science General Education Course	3	Communications General Education Course	3
		Arts and Humanities General Education Course	3
TOTAL	14		15
Junior			
Fall Semester		Spring Semester	
PS 303 – Physics and Engineering Seminar II	1	PS 350 – Modern Physics I	3
PS 330 – Optics	3	PS 365 – Theoretical Physics	3
PS 332 – Optics Lab (Lab)	1	PS 322 – Circuits and Electronics (Lab)	3
PS 366 – Intro. To Computational Physics	3	Scientific Literacy General Education Course	3
EN 308 – Scientific and Technical Writing	3	Natural Science or Math Elective	3
Inclusion and Belonging Gen. Ed. Course	3		
TOTAL	14		15
Senior			
Fall Semester		Spring Semester	
PS 335 – Theoretical Mechanics	3	Electives	9
PS 360 – Physics Research	1	Upper-Division Electives	6
MA 301 – Linear Algebra	3		
Natural Science of Math Electives (upper-div)	3		
Social Science General Education Course	3		
Arts and Humanities General Education Course	3		
TOTAL	16		15

Total for Degree

120

Sample Four-Year Schedule for Physics Major

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Curriculum for students starting 2025-2026 Academic Year

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Fall Semester		Spring Semester	
WU 101 – Washburn Experience	3	PS 281 – General Physics I	5
EN 101 – Introductory College Writing	3	MA 152 – Calculus & Analytic Geometry II	5
MA 151 – Calculus & Analytic Geometry I	5	CH 151 – General Chemistry I	5
PS 103 – Physics and Engineering Seminar I	1		
CM 111 – Intro. To Structured Programming	4		
TOTAL	16		15
Sophomore			
Fall Semester		Spring Semester	
PS 282 – General Physics II	5	PS 350 – Modern Physics I	3
MA 253 – Calculus & Analytic Geometry III	3	PS 365 – Theoretical Physics	3
EN 200 – Intermediate College Writing	3	MA 331 – Differential Equations	3
Social Science General Education Course	3	Communications General Education Course	3
		Arts and Humanities General Education Course	3
TOTAL	14		15
Junior			
Fall Semester		Spring Semester	
PS 303 – Physics and Engineering Seminar II	1	PS 320 – Electromagnetic Theory I	3
PS 335 – Theoretical Mechanics	3	PS 334 – Thermodynamics	3
PS 352 – Modern Physics Lab	1	PS 340 – Computer Interfacing and Inst. (Lab)	3
MA 301 – Linear Algebra	3	Scientific Literacy General Education Course	3
EN 308 – Scientific and Technical Writing	3	Natural Science or Math Elective	3
Inclusion and Belonging Gen. Ed. Course	3		
TOTAL	14		15
Senior			
Fall Semester		Spring Semester	
PS 330 – Optics	3	Electives	9
PS 366 – Intro. To Computational Physics	3	Upper-Division Electives	6
PS 360 – Physics Research	1		
Natural Science of Math Electives (upper-div)	3		
Social Science General Education Course	3		
Arts and Humanities General Education Course	3		
TOTAL	16		15

Total for Degree

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