B.S. Dual Major with Physics

Name: _____

Updated 8/22/2023

Physics Major

(36 hrs)

Introductory Physics (16 hrs)

_____	3	PHYS 100	Intro. to Phys. and Eng.
_____	5	PHYS 211	Engineering Physics I*^
_____	5	PHYS 212	Engineering Physics II*
_____	3	PHYS 313	Modern Physics

Intermediate Physics (9 hrs)+

_____	3	PHYS 221	Statics
_____	3	PHYS 331	Electronic Circuits
_____	3	PHYS 332	Analog and Digital Electronics
_____	3	PHYS 213	Scientific Computing and Prod.^
_____	3	PHYS 333	Intro. to Computational Physics

Advanced Physics Electives (9 hrs)

_____	3	PHYS 620	Math Physics
_____	3	PHYS 621	Mechanics
_____	3	PHYS 632	Electricity and Magnetism
_____	3	PHYS 652	Optics
_____	3	PHYS 672	Thermal Physics
_____	3	PHYS 677	Quantum Mechanics I
_____	3	PHYS 678	Quantum Mechanics II
_____	3	PHYS 660	Solid State Physics

Laboratory Electives (1 hrs)

_____	1	PHYS 651	Advanced Lab I
_____	1	PHYS 654	Advanced Lab II
_____	1	PHYS 601	Computational Physics Lab

Projects (1 hrs)

_____	1	PHYS 603	Projects I
_____	1	PHYS 675	Seminar I

Cognates (22 hrs)

_____	5	CHEM 120	University Chemistry I*
_____	5	MATH 234	Calculus I^
_____	5	MATH 235	Calculus II
_____	3	MATH 236	Calculus III
_____	3	MATH 354	Differential Equations
_____	1	UNIV 101	Freshman Seminar

Free Electives (5 hrs)

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KBOR General Education

(27 hrs)

_____	3	English Composition I
_____	3	English Composition II
_____	3	Fundamentals of Oral Communication
_____	3	Social or Behavioral Science Course
_____	3	Social or Behavioral Science Course
_____	3	Arts or Humanities Course
_____	3	Arts or Humanities Course
_____	3	Critical Thinking
_____	3	Personal and Professional Development Course

Second Major

(Min 30 hrs)

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Notes: * Course has a lab requirement
^ Course satisfies GenEd requirement
+ Adv. Electives can be substituted for Interm. Electives
- Outcome met with course required by Degree
Degree requires a minimum of 45 hours upper division

Total Hours: 120