

## ***Physics Major: Foundation***

(August 2013)

*For prospective majors enrolling in Math 110, 114, or above in the fall of the first year*

	<u>Fall</u>	<u>Spring</u>
Year 1:	CSP Seminar Core Distribution (Math 110, 114) Physics 106 (CS 161, 165) <sup>*†</sup>	CSP Seminar Core Distribution (Math 120, 128) Physics 110 (CS 161, 165) <sup>*†</sup>
Year 2:	Foreign Language 1 Core Distribution Physics 120 (Math 212, 214) <sup>‡</sup> (CS 161, 165) <sup>*†</sup>	Foreign Language 2 Physics 240 Physics 250 (Math 212, 214) <sup>‡</sup> (CS 161, 165) <sup>*†</sup>

See *Physics Major: Options* for required and suggested coursework in Years 3 and 4

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\*Students are strongly encouraged to take both these courses by the end of their sophomore year.

†Two-credit course

‡These courses may be taken in either order.

(...) One of the courses given in parentheses should be taken.

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1. Students who wish to take courses without the prerequisites must petition the Physics Department.
  2. If language proficiency is met with fewer courses than shown, additional electives may be chosen.

## ***Physics Major: Options***

(August 2013)

***Note: All Options require Junior Seminar: Physics 490 and 491 (two credits each)***

***Physics:*** *Physics 310, 315<sup>†</sup>, 316<sup>‡</sup>, 320, 330, 340, one Selective<sup>\*</sup>*

Year 3: Physics 310 Physics 320	Physics 330 Physics 340
Year 4: Physics 315 <sup>†</sup> Physics 490 <sup>†</sup> [Physics Selective <sup>*</sup> ]	Physics 316 <sup>‡</sup> Physics 491 <sup>†</sup> [Physics Selective <sup>*</sup> ]

***Mathematics:*** *Physics 310, 320, one Selective<sup>\*</sup>, 8 units above 300; 8 units above 300 in Math/Comp Sci*

Year 3: Physics 310 {Physics 320/Math-CS}	[Physics Selective <sup>*</sup> ] {Physics 330 <sup>‡</sup> / Math-CS}
Year 4: {Math-CS/Physics 320} Physics 315 <sup>‡†</sup> Physics 490 <sup>†</sup> [Physics Selective <sup>*</sup> ]	{Math-CS/Physics 340 <sup>‡</sup> } Physics 316 <sup>‡†</sup> Physics 491 <sup>†</sup> [Physics Selective <sup>*</sup> ]

***Chemistry:*** *Physics 310, 320, 330, 340 or Chem 305; Chemistry 120 or 130, 220, 221, and 240*

Year 3: Physics 310 Chem I	Physics 330 Chem II
Year 4: Physics 320 Chem III Physics 490 <sup>†</sup> [Physics Selective <sup>*</sup> ]	(Physics 340/Chem 305) Chem IV Physics 491 <sup>†</sup> [Physics Selective <sup>*</sup> ]

***Education:*** *Physics 320, two Selectives<sup>\*</sup>; Ed 201, 205, 340*

Year 3: Physics 320 Ed 201	[Physics Selective <sup>*</sup> ] Ed 205
Year 4: [Ed 314 <sup>#</sup> ] Physics 490 <sup>†</sup> [Physics Selective <sup>*</sup> ]	Ed 340 Physics 491 <sup>†</sup> [Physics Selective <sup>*</sup> ]

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<sup>\*</sup>A "Physics Selective" is a course from the 260/360 series, or any 300-level physics course not otherwise required for the Option.

<sup>†</sup>A two-credit course.

<sup>‡</sup>Recommended courses for the eight Physics units above 300 required for the Math Option.

<sup>#</sup> Strongly recommended course, but not required for the Option.

(...) Only one of the courses given in parentheses is required for the Option.

{...} Course sequences listed in curly brackets may be taken in either junior or senior year.

[...] A course listed in square brackets may be taken at any time.

## ***Combined Plan (3-2 Program)*** ***Physical Sequence*** (August 2013)

**Note:** *Prospective 3-2 students must place into Math 110, 114 or above*

	<u>Fall</u>	<u>Spring</u>
Year 1:	CSP Seminar Core Distribution (Math 110, 114) Physics 106 (CS 161, 165) <sup>‡†</sup>	CSP Seminar Core Distribution (Math 120, 128) Physics 110 (CS 161, 165) <sup>‡†</sup>
Year 2:	Core Distribution Physics 120 (Math 212, 214) <sup>#</sup> (Foreign Language 1/Chem 120) (CS 161, 165) <sup>‡†</sup>	Physics 240 Physics 250 (Math 212, 214) <sup>#</sup> (Foreign Language 2/Chem 220) (CS 161, 165) <sup>‡†</sup>
Year 3:	Physics 310 Physics 320 (Chem 120/Foreign Language 1) [Physics Selective*]	{Physics 330/340} (CS 211/Math 341/Math 342) (Chem 220/Foreign Language 2) [Physics Selective*]

**Notes:**

1. Econ 101 is recommended for one of the core distribution courses (Group 5: United States).
2. Students are encouraged to take Math 341: Ordinary Differential Equations.
3. Students interested in Electrical or Biomedical Engineering should take Physics 262: Electronics.

*All interested students are urged to meet with the 3-2 Liaison Officer before the end of sophomore year.*

\* A course from the 260/360 series, or any 300-level physics course not otherwise required for the 3-2 Program.

† Two-credit course

‡ Students should complete both these courses by the end of sophomore year.

# These courses may be taken in either order.

(...) One of the courses given in parentheses should be taken.

{...} Courses in curly brackets are not actually required of 3-2 students, but are strongly recommended since they allow for an easy transition into the physics major should the student decide not to continue in the 3-2 program.