### BA – Physics

#### (SC-BA/Physics)

<table>
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<th>2017 Catalog year: College of Science and Engineering</th>
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<th>Freshman Fall semester</th>
<th>Freshman Spring semester</th>
<th>Sophomore Fall semester</th>
<th>Sophomore Spring semester</th>
<th>Junior Fall semester</th>
<th>Junior Spring semester</th>
<th>Senior Fall semester</th>
<th>Senior Spring semester</th>
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- **Modern language**: 1410
- **CHEM 1341/1141 (F,S,Su)** or **BIO 1330/1130 (F)**
- **Modern language**: 1420
- **CHEM 1342/1142 (F,S,Su)** or **BIO 1331/1131 (F)**
- **Modern language**: 2310
- **Modern language**: 2320
- **ENG 23XX** or **ENG 3303** (ENG 23XX must be different than literature taken for core)

**Minor and/or elective courses**

**13-16 hours PHYS electives:**
- PHYS 3210 – Physics Cognition & Pedagogy
- PHYS 3311 (S) – Mechanics I
- PHYS 3313 - Astrophysics
- PHYS 3315 (S) - Thermodynamics
- PHYS 3416 (F) – Applied Electronics
- PHYS 3417 (F) – Optics
- PHYS 4305 – Statistical Physics
- PHYS 4310 (F) – Electromagnetic Field Theory I
- PHYS 4311 (F) – Condensed Matter Physics
- PHYS 4312 (F) – Quantum Mechanics I
- PHYS 4313 – Quantum Mechanics II
- PHYS 4314 – Mechanics II
- PHYS 4315 (S) – Electromagnetic Field Theory II
- PHYS 4317 (F) – Computational Physics
- PHYS 4320 – Selected Studies in Physics
- PHYS 4121,4221,4321 – Undergraduate Research
- PHYS 3430 (S) – Materials Physics Laboratory
- PHYS 4350A – Thin Film Photo. Dev.
- PHYS 4350B – Relativity
- PHYS 4350C – Cognition & Pedagogy II

See most recent online catalog for prerequisites;
PHYS 3414 was replaced by PHYS 3311

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**KEY:**
- Arrows indicate prerequisites.
- Arrows with dotted lines indicate co-requisites.
- Arrows with dash lines are recommended prerequisites.
- Courses taught in specific semesters are indicated with the following codes: F-Fall, S-Spring, Su-Summer Session I or II

**Core courses must be completed:**
- _US 1100_  
- _COMM 1310_  
- _PHIL 1305 or 1320_  
- _ENG 1310_  
- _ENG 1320_  
- _ENG 2310-2360_  
- _HIST 1310_  
- _HIST 1320_  
- _ART/DAN/MU/TH 2313_  
- _POSI 2310_  
- _POSI 2320_  
- _ANTH 1312/ECO 2301/ECO 2314/GEO 1310/PSY 1300/SOCI 1310_  

US 1100 & ENG 1310 recommended for first semester. HIST 1310/1320 not recommended for first semester.