

Student Planner

Major Requirements for a Bachelor of Science in Physics-Astrophysics Emphasis

Requirements listed are those in the 2018-2019 catalog. The required courses for the major should be taken for a letter grade. All courses are required unless otherwise indicated.

Preparatory Subject Matter

| Course | No | Units | Qtr | Grade | GP |
|--------|------------|-------|-------|-------|----|
| PHY | 9A | 5 | F,S | | |
| | 9B | 5 | F,W | | |
| | 9C | 5 | W,S | | |
| | 9D | 4 | F,S | | |
| | or | | | | |
| PHY | 9HA | 5 | F | | |
| | 9HB | 5 | W | | |
| | 9HC | 5 | S | | |
| | 9HD | 5 | F | | |
| | 9HE | 5 | W | | |
| | and | | | | |
| MAT | 21A | 4 | F,W,S | | |
| | 21B | 4 | F,W,S | | |
| | 21C | 4 | F,W,S | | |
| | 21D | 4 | F,W,S | | |
| | 22A | 3 | F,W,S | | |
| | 22B | 3 | F,W,S | | |
| PHY | 40 | 4 | S | | |
| | 80 | 4 | W,S | | |
| | 185* | 1 | S | | |
| | 190* | 1 | F | | |

Depth Subject Matter

| Course | No | Units | Qtr | Grade | GP |
|--------|------|-------|-----|-------|----|
| PHY | 104A | 4 | F | | |
| | 105A | 4 | F | | |
| | 108 | 3 | S | | |
| | 108L | 1 | S | | |
| | 110A | 4 | W | | |
| | 110B | 4 | S | | |
| | 112 | 4 | F | | |
| | 115A | 4 | S | | |
| | 115B | 4 | F | | |

| Course | No | Units | Qtr | Grade | GP |
|--------|-----------|-------|-----|-------|----|
| PHY | 102 | 1 | F | | |
| | or | | | | |
| | 104B | 4 | W | | |

PHY 80 will be a pre-requisite for PHY 122A/B starting W2020

Course offered in alternate years

*Recommended Courses

Depth Subject Matter

| Course | No | Units | Qtr | Grade | GP |
|--------|-----------|-------|-----|-------|----|
| PHY | 122A/B | 4 | W | | |
| | or | | | | |
| | 157 | 4 | S# | | |

Concentration Courses

| Course | No | Units | Qtr | Grade | GP |
|--------|-----|-------|-----|-------|----|
| PHY | 151 | 4 | F# | | |
| | 152 | 4 | F# | | |
| | 153 | 4 | W# | | |
| | 156 | 4 | W# | | |

Electives-Choose 2

| Course | No | Units | Qtr | Grade | GP |
|--------|-------|-------|-------|-------|----|
| PHY | 105B | 4 | W | | |
| | 110C | 4 | F | | |
| | 116A | 4 | F | | |
| | 129A | 4 | S | | |
| | 130A | 4 | W | | |
| | 130B | 4 | S | | |
| | 150& | 4 | F,W,S | | |
| | 154 | 4 | S# | | |
| | 155 | 4 | W | | |
| GEL | 163 | 3 | W | | |
| PHY | 194H^ | | | | |
| | 195^ | | | | |
| | 199^ | | | | |

^ May include only one course from Physics 194H, 195 and 199.

& Only with an astrophysics topic and prior departmental approval.

Recommended Courses

| Course | No | Units | Qtr | Grade | GP |
|--------|-----|-------|-----|-------|----|
| AST | 25* | 4 | F | | |
| | | | | | |

Major GPA

Overall

Upper Div

| |
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| |
| |

Student Planner

Major Requirements for a Bachelor of Science in Physics-Astrophysics Emphasis

Sample plan for Junior and Senior Year beginning in alternate years

Underlined courses are required. Italics means possible elective course, only one of the lab courses in parenthesis is required.

| | | | |
|---------------|-------------|--------------------------------|----------------------------------|
| | Fall | Winter | Spring |
| Junior | <u>104A</u> | <u>110A</u> | <u>110B</u> |
| | <u>105A</u> | <u>156</u> | <u>115A</u> |
| | <u>152</u> | <i>Physics 105B</i> | <i>Physics 155</i> |
| | <u>102</u> | | |
| Senior | <u>115B</u> | (<u>122A</u> or <u>122B</u>) | <u>108, 108L</u> |
| | <u>112</u> | <u>153</u> | (<u>157</u>) |
| | <u>151</u> | <i>Physics 130A</i> | <i>Physics 154</i> |
| | | | |
| | Fall | Winter | Spring |
| Junior | <u>104A</u> | <u>110A</u> | <u>110B</u> |
| | <u>105A</u> | <u>153</u> | <u>115A</u> |
| | <u>151</u> | | (<u>157</u>) |
| | <u>102</u> | | <i>Physics 154</i> |
| Senior | <u>115B</u> | (<u>122A</u> or <u>122B</u>) | <u>108, 108L</u> |
| | <u>112</u> | <u>156</u> | <i>Physics 130B</i> or |
| | <u>152</u> | <i>Physics 130A</i> | <i>129A</i> or <i>GEL 163</i> or |
| | | | <i>Physics 155</i> |

Depth, Concentration and Electives Total _____

Course offered in alternate years

59 Total Units

Course Substitution/ Waiver requests should be submitted well in advance, preferably prior to enrollment in the course.

1. Student must first speak with a faculty advisor.

2. Faculty advisor submits course substitution/waiver request to the Undergraduate Curriculum Committee for approval.

Advisor please Initial & date substitution/waiver requests and submit to the Chair of the Undergraduate Curriculum Committee.

Approval: _____
Physics Advisor Date

(Required for delcaration of major & any subsequent substitutions)

Approval: _____
Departmental Approval Date

(Required only if there are substitutions.)