

# ENGINEERING

## Physics

### Associate of Arts Oregon Transfer

#### FOCUS AREA DESCRIPTION

Physics is arguably the oldest academic discipline; it is the study of matter and its motion and related energy. The Associate of Arts Oregon Transfer (AAOT) with a focus in physics includes most courses that are commonly required for a major and meets lower division general education requirements at all Oregon public universities. Since there are minor variations between university physics programs, students may have to take some additional courses after transferring.

#### PROGRAM ENTRANCE REQUIREMENTS

None

#### PROGRAM PERFORMANCE STANDARDS

##### Academic Requirements

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

#### PROGRAM COURSE REQUIREMENTS

##### General Education/Foundational

##### Health

3 credits with HHP or HHPA prefix<sup>1</sup> 3

##### Mathematics

MTH 105 Math in Society (or higher) 4  
Recommend: MTH 251

##### Oral Communication

Choose one course from the following: 3-4

SP 111 Fundamentals Public Speaking  
SP 114 Argumentation & Discourse  
SP 115 Intro Intercultural Commun  
SP 218 Interpersonal Communication  
SP 219 Small Group Communication

##### Writing

WR 121 Academic Composition 4  
WR 122 Argument, Research and Multimodal Composition 4  
or WR 227 Technical Writing  
Recommend: WR 227

##### General Education/Discipline Studies

One course must be designated as Cultural Literacy.

##### Arts and Letters

Choose at least three courses from at least two prefixes 9-12

##### Social Science

Choose at least four courses from at least two prefixes 12-16

##### Science/Math/Computer Science

Choose at least four courses from at least two prefixes including at least

three laboratory courses in biological and/or physical science

Recommend: MTH 252, PH 211, PH 212, PH 213

##### Electives

Choose enough electives to reach 90 credits 39

Recommend: CH 221, CH 222, CH 223, ENGR 201, ENGR 202, ENGR 211, ENGR 212, ENGR 213, GE 101, GE 102, MTH 253, MTH 254, MTH 255, MTH 256

**Total Credits 90-106**

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.