PHYSICS, ENGINEERING AND ENGINEERING TECH

ASSOCIATE OF SCIENCE

While there are small differences between the programs of each branch of engineering and physics, COCC works to provide the courses common to all programs. Students may have to take some additional classes at the university after transferring to reach junior status within their major.

The Associate of Arts Oregon Transfer degree meets the state of Oregon Transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements; with the appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in physics, engineering and engineering technology. Know that in some instances an Associate of Science degree may help students better meet transfer institution course requirements; see advisor for details.

GENERAL EDUCATION/BASIC SKILLS

Computer competency[1]		0-4
Health[2]		3-4
MTH 111	College Algebra	4
SP 111	Fundamentals of Public Speaking	3
WR 121	English Composition	3
WR 122	English Composition	3
WR 227	Technical Writing	3

1 *Pass computer basic skills competency test or take CIS 120, Computer Concepts.*

2 *To meet this requirement, students can choose between HHP 231: Human Sexuality, HHP 242: Stress Management, HHP 258: Prevention of Chronic Diseases or HHP 266: Nutrition for Health, HHP 295: Health and Fitness and one activity or health module —OR— HHP 252A.*

Effective for 2009–10 Academic Year

continued

PHYSICS, ENGINEERING AND ENGINEERING TECH

ASSOCIATE OF SCIENCE

GENERAL EDUCATION/DISTRIBUTION

HUMANITIES

A minimum of 11 credits from the humanities distribution list, with at least two different prefixes and at least two courses with the same prefix.

SCIENCE/MATH/COMPUTER SCIENCE

BI 101	General Biology I	4
PH 211	General Physics I	5
PH 212	General Physics II	5
PH 213	General Physics III	5

SOCIAL SCIENCE

A minimum of 15 credits from the social science distribution list, with at least two different prefixes and at least two courses with the same prefix.

ELECTIVES

CH 221	General Chemistry I	4
CH 222	General Chemistry II	4
CH 223	General Chemistry III	4
ENGR 201	Electrical Fundamentals	3
ENGR 211	Statics	4
ENGR 212	Dynamics	4
ENGR 213	Strength of Material	4
GE 101	Engr Orientation	3
GE 102	Engineering Problem Solving & Technology	3
MTH 251	Calculus I	4
MTH 252	Calculus II	4
MTH 253	Calculus III	4
MTH 254	Vector Calculus I	4
MTH 255	Vector Calculus II	4
MTH 256	Applied Differential Equations	4

Students should take all of the above plus enough additional coursework to reach the 93 minimum credits required for the AS degree.

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