

MATERIALS SCIENCE OPTION

This option is offered within the following major(s):

- Chemistry - College of Science (<http://catalog.oregonstate.edu/college-departments/science/chemistry/chemistry-ba-bs-hba-hbs>)

The Materials Science option is customized to include applied courses in a variety of materials areas to enhance career opportunities in, for example, electronics, polymers and biotechnology. Students can earn a BS degree in Chemistry in four years while targeting a career in this field or preparing for graduate school in chemistry or related areas.

The Materials Science option is designed for the Track-Two BS degree in Chemistry.

The track-two core requirements are slightly modified for the Materials Science option:

Code	Title	Hours
Recommended/Required for Core		
PH 211 & PH 212 & PH 213	*GENERAL PHYSICS WITH CALCULUS and *GENERAL PHYSICS WITH CALCULUS and *GENERAL PHYSICS WITH CALCULUS (Required)	12
Requirements		
CHE 444	THIN FILM MATERIALS PROCESSING	4
CHE 445	POLYMER ENGINEERING AND SCIENCE	4
ENGR 321	INTRODUCTION TO MATERIALS SCIENCE	4
ENGR 322	MECHANICAL PROPERTIES OF MATERIALS	3
MTH 256	APPLIED DIFFERENTIAL EQUATIONS	4
Select four of the following:		12-14
CH 401	RESEARCH	
CH 413		
CHE 401	RESEARCH	
ECE 416	ELECTRONIC MATERIALS AND DEVICES	
ENGR 211	STATICS	
ENGR 212	DYNAMICS	
ENGR 213	STRENGTH OF MATERIALS	
ENGR 221	THE SCIENCE, ENGINEERING AND SOCIAL IMPACT OF NANOTECHNOLOGY	
ME 316	MECHANICS OF MATERIALS	
Total Hours		43-45

* Baccalaureate Core Course (BCC)

Option Code: 522