



School of Chemical, Biological, and Environmental Engineering (CBEE)

College of Engineering
cbee.oregonstate.edu

Transfer Student Guide Bioengineering (BIOE)

Revised 9/16/20

This guide provides information for students wishing to transfer to Oregon State University (OSU) for a bachelor's degree in bioengineering. Included in this guide is a sample 4-year plan for students wishing to spend up to 2 years completing prerequisites at another college. In addition, we include tables of the equivalent courses between OSU and the 17 community colleges (CCs) throughout Oregon. Please note that not all colleges will have equivalent courses for all of the lower-division courses required for a bioengineering major.

As you review the information in this guide, please consider:

- In the sample 4-year plan, the credits for each course reflects the number of credits for this course at OSU. Credit values will vary at different institutions.
- Your local college may require additional prerequisites for courses that are not reflected in this guide.
- Review the information in the 4-year sample plan carefully. This plan includes information about prerequisites for upper-division courses. CBEE will not override prerequisites for upper-division courses.
- Please note that while much of the lower division coursework can be completed at other institutions, CBEE 211 and 212 have no approved equivalencies at other institutions. These courses must be completed before enrolling in upper division coursework in any of the CBEE majors. We do have a summer alternative to these courses, CBEE 280, which can be taken if approved by one of the CBEE undergraduate advisors.

If you have any questions about any of the information contained in this guide, please reach out to the CBEE undergraduate advisors (contact information below). We work year-round and are happy to assist you as you consider a transfer to OSU.

General questions? Email cbee.advising@oregonstate.edu

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Bioengineering 4-Year Plan (192 Credits)

Revised 9/16/20

Credits	First Year			Second Year			Third Year			Fourth Year							
	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring					
1	Chemistry CH 231 (4FW)	Chemistry CH 232 (4WS)	Chemistry CH 233 (4FS)	Organic Chemistry CH 331 (4FW)	Organic Chemistry CH 332 (4WS)	EE Fund. ENGR 201 (3FWS)	Biochemistry BB 450 (4FW)	Biochemistry BB 451 (3WS)	Biomedical Engr. Principles BIOE 340 (3S)	Bioengr. Prod. Design BIOE 491 (4F)	Bioengr. Prod. Design BIOE 492 (4W)	Bioengr. Proc. Design BIOE 490 (4S)					
2						Process Analysis CBEE 213 (4S)			Transport II CHE 332 (3W)				Transport III CHE 333 (3WS)				
3						CH 261 (1)		CH 262 (1)						CH 263 (1)	Material Balances CBEE 211 (3FW)	Energy Balances CBEE 212 (3WS)	Transport I CHE 331 (4F)
4									Differential Calculus MTH 251 (4FWS)				Integral Calculus MTH 252 (4FWS)				
5	Orientation CBEE 101 (3F)	COMM 111/114 (3FWS)	Physics w/ Calculus PH 211 (4FWS)	Anatomy & Physiology BI 231 (3F)	Differential Equations MTH 256 (4FWS)	Matrices MTH 264 (2)	Engineering Ethics CBEE 320 (3F)	DPD (3FWS)									
6									English Composition WR 121 (3FWS)	HHS 231 (2FWS)	Engr. Comp. CBEE 102 (3S)	BI 241 (2F) or MB 230 (4FWS)	Perspective (3FWS)	Anatomy & Physiology BI 233 (3S)	Perspective (3FWS)	Engineering Elective (3-4FWS)	
7	PAC (1FWS)	Process Laboratory CBEE 414 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)									
8									Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	
9	Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)									
10									Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	
11	Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)									
12									Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	
13	Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)									
14									Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	
15	Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)									
16									Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	
17	Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)									
18									Engr. Comp. CBEE 102 (3S)	Bioreactors BIOE 457 (3F)	BIOE Elective (3-4FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	Perspective (3FWS)	

Pre-requisites for upper division coursework

3FWS: Represents the credit hours (3) and the term the course is offered (Fall, Winter and Spring term respectively).

This advising guide is intended for scheduling only. Course offerings and requirements are subject to change. Please reference the OSU Online catalog for a complete list of degree requirements.

Bioengineering Transfer from Oregon Community College

Revised 9/16/20

Credits	First Year (CC)			Second Year (CC)				Third Year (OSU)			Fourth Year (OSU)														
	Fall	Winter	Spring	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Fall	Winter	Spring												
1	Chemistry CH 231 (4)	Chemistry CH 232 (4)	Chemistry CH 233 (4)	Organic Chemistry CH 331 (4)	Organic Chemistry CH 337 (4)	Organic Chemistry CH 332 (4)	Material and Energy Balances CBEE 280* (6)	Biochemistry BB 450 (4FWS)	Biochemistry BB 451 (3FWS)	Biomedical Engr. Principles BIOE 340 (3S)	Bioengr. Prod. Design BIOE 491 (4F)	Bioengr. Prod. Design BIOE 492 (4W)	Bioengr. Proc. Design BIOE 490 (4S)												
CH 261 (1)														CH 262 (1)	CH 263 (1)	Physics w/ Calculus PH 212 (4)	Physics w/ Calculus PH 213 (4)	EE Fund. ENGR 201 (3)	Perspective (3)	Transport I CHE 331 (4F)	Transport II CHE 332 (3W)	Transport III CHE 333 (3WS)	Biochemistry Lab BB 493 (3F)	Bio- separations BIOE 462 (3W)	Engineering Elective (3-4FWS)
								Differential Calculus MTH 251 (4)	Integral Calculus MTH 252 (4)	Vector Calculus MTH 254 (4)	Anatomy & Physiology BI 231 (3)	Differential Equations MTH 256 (4)	Statics ENGR 211 (3)												
																				Orientation ENGR 111 (3)	Engr. Comp. ENGR 112 (3)	Physics w/ Calculus PH 211 (4)	BI 241 (2) or MB 230 (4)	Anatomy & Physiology BI 232 (3)	Series MTH 265 (2)
	English Composition WR 121 (3)	COMM 111/114 (3)	HHS 231 (2)	Anatomy & Physiology BI 233 (3)	DPD (3FWS)	Engineering Elective (3-4FWS)	BIOE Elective (3-4FWS)	Biological Science Elective (3-4FWS)	Perspective (3FWS)	Synthesis (3FWS)															
13											14	15	16	17	18										

* Needs to be taken through OSU eCampus the summer before starting CHE 311 and 331. Substitutes for CBEE 211 and 212 requirement.

	Pre-requisites for upper division coursework
	Not required for OSU degree, but often required as a prerequisite at the community college

This advising guide is intended for scheduling only. Course credit hours and course availability may vary at your local community college. Course offerings and requirements are subject to change. Please reference the official OSU articulation tables and OSU Online catalog for a complete list of degree requirements.

Required Courses for Bioengineering Major

Math

Course #	Credit Hours	Description	Prerequisites	Terms Offered
MTH 251	4	Differential Calculus	MTH 112	FWS
MTH 252	4	Integral Calculus	MTH 251	FWS
MTH 254	4	Vector Calculus I	MTH 252	FWS
MTH 256	4	Differential Equations	MTH 254	FWS
MTH 264	2	Introduction to Matrix Algebra	MTH 252	FWS
MTH 265	2	Introduction to Series	MTH 252	FWS

Science

Course #	Credit Hours	Description	Prerequisites	Terms Offered
BI 241 or MB 230	2 or 4	Anatomy & Physiology Lab (BI 241) or Introduction Microbiology (MB 230)	BI 241: BI 231 (co), MB 230: none	BI 241:F MB 230: FWS
BI 231	3	Human Anatomy & Physiology	none	F
BI 233	3	Human Anatomy & Physiology	BI 231	S
BB 450	4	General Biochemistry	CH 332 or CH 336	FW
BB 451	3	General Biochemistry	BB 450	WS
BB 453	4	Biochemistry Lab I	BB 451	F
CH 231/261	5	General Chemistry + Lab	MTH 111	FW
CH 232/262	5	General Chemistry + Lab	CH 231/261	WS
CH 233/263	5	General Chemistry + Lab	CH 232/262	FS
CH 331	4	Organic Chemistry (CH334/5/6 can substitute)	CH 233/263	FW
CH 332	4	Organic Chemistry (CH334/5/6 can substitute)	CH 331	WS
PH 211	4	General Physics with Calculus	MTH 251, MTH 252 (co)	FWS
PH 212	4	General Physics with Calculus	PH 211, MTH 252, MTH 254 (co)	FWS
PH 213	4	General Physics with Calculus	PH 212, MTH 254	WS

Engineering

Course #	Credit Hours	Description	Prerequisites	Terms Offered
BIOE 340	3	Biomedical Engineering Principles	CHE 332, BI 233 (co), CHE 333 (co)	S
BIOE 351	3	Biomaterials & Biointerfaces	BB 451 (co), CHE 333 (co)	S
BIOE 415	3	Bioengineering Laboratory	CBEE 414	W
BIOE 420	3	Social Justice, Ethics, & Engineering	CBEE 320	W
BIOE 457	3	Bioreactors	BB 451, CHE 333	F
BIOE 462	3	Bioseparations	BB 451, CHE 332	W
BIOE 490	4	Bioengineering Process Design	BIOE 457 (co), CHE 333	S
BIOE 491	4	Bioengineering Product Design	BIOE 490	F
BIOE 492	4	Bioengineering Capstone Design	BIOE 491	W
CBEE 101	3	Chemical, Biological and Environmental Engineering Orientation	-	F
CBEE 102	3	Engineering Problem Solving and Computation	MTH 112	S
CBEE 211	3	Material Balances and Stoichiometry	MTH 252, 2nd year engr standing	FW
CBEE 212	3	Energy Balances	CBEE 211, MTH 256 (co)	WS
CBEE 213	4	Process Data Analysis	CBEE 212	S
CBEE 320	3	Professionalism and Engineering Ethics	CBEE 212 or CBEE 280	F
CBEE 414	3	Process Engineering Laboratory	CBEE 213 (co), CHE 311, CHE 333	F
CHE 311	3	Thermodynamics	CBEE 212 or CBEE 280, MTH 256	FW
CHE 331	4	Transport Phenomena I: Fluids	CBEE 212, MTH 256	F
CHE 332	3	Transport Phenomena II: Heat	CHE 311 and 331	W
CHE 333	3	Transport Phenomena III: Mass	CHE 331 and 332 (co)	S
ENGR 201	3	Electrical Engineering Fundamentals I	MTH 252, 2nd year engr standing	FWS
ENGR 211	3	Statics	MTH 252, 2nd year engr standing	FWS

Elective Courses for Bioengineering Major

BIOE majors are required to take 6 credits of bioengineering electives, 3 credits of upper division biological science electives, and 6 credits restricted engineering electives. Students may substitute an additional bioengineering elective for the biological science requirement.

Bioengineering Electives (6 credit minimum)

Course #	Credit Hours	Description	Prerequisites	Terms Offered
BIOE 440	3	Bioconjugation	BB 450	S*
BIOE 445	3	Surface Analysis	BIOE 351 (co)	S*
BIOE 459	3	Cell Engineering	BB 451, CHE 333	W

Upper Division Biological Science Elective (3 credit minimum)

Course #	Credit Hours	Description	Prerequisites	Terms Offered
BB 314	4	Cell and Molecular Biology	BI 213, CH 331	FWS
BB 360	3	Introduction to Neuroscience	BI 213, CH 233, CH 263	W
BB 481	3	Macromolecular Structure	BB 450	F
BHS 316	3	Principles of Immunology	BI 213, MB 230	S
BHS 329	3	Mechanisms of Disease: Introduction to General Pathology	BI 212	S
BI 311	4	Genetics	BI 213	FWS
BIOE 440	3	Bioconjugation	BB 450	S*
BIOE 445	3	Surface Analysis	BIOE 351 (co)	S*
BIOE 459	3	Cell Engineering	BB 451, CHE 333	W
MB 302	3	General Microbiology	BI 213, CH 332	FWS
MB 416	3	Immunology	BB 450	F
MB 434	3	Virology	BB 451	S
MB 479	3	Fermentation Microbiology	BI 212, CH 332, BB 450, MB 302	S

Restricted Engineering Electives (6 credit minimum)

Course #	Credit Hours	Description	Prerequisites	Terms Offered
BEE 320	4	Biosystems Analysis and Modeling	BEE 222, MTH 256	F
BEE 468	4	Bioremediation Engineering	BEE 221 or ENVE 322	W
BIOE 440	3	Bioconjugation	BB 450	S*
BIOE 445	3	Surface Analysis	BIOE 351 (co)	S*
BIOE 459	3	Cell Engineering	BB 451, CHE 333	W
CHE 312	3	Chemical Engineering Thermodynamics	CHE 311	WS
CHE 334	2	Transport Phenomena Laboratory	CBEE 213 (co), CHE 333 (co)	S
CHE 361	3	Chemical Process Dynamics & Simulation	MTH 256, CHE 331	W
CHE 445	4	Polymer Engineering & Science	Recommended: CH 332 or CH 336, MTH 256	FS
CHE 450	3	Conventional & Alternative Energy Systems	CHE 311	W
CHE 451	3	Solar Energy Technologies	CHE 311	F
CHE 461	3	Process Control	CHE 332, CHE 361	S
CS 446	3	Networks in Computational Biology	CS 261, CS 325 (co)	F
ENGR 212	3	Dynamics	ENGR 211, PH 211	FWS
ENGR 213	3	Strength of Materials	ENGR 211	FWS
ENGR 248	3	Engineering Graphics & 3D Modeling	-	FWS
ENVE 321	4	Fundamentals of Environmental Engineering	CH 232, MTH 256	S
ENVE 322	4	Fundamentals of Environmental Engineering	CH 232, MTH 256	W
ENVE 421	4	Water and Wastewater Characterization	ENVE 321 or ENVE 322	F
ENVE 422	4	Environmental Engineering Design	ENVE 421	W
ENVE 425	3	Air Pollution Control	ENVE 321 or ENVE 322	S
ENVE 431	4	Fate & Transport of Chemicals in Environmental Systems	CH 440 or CHE 331, ENVE 421	W

*Courses not offered every year.

Baccalaureate Core Course Requirements

OSU requires completion of a set of Baccalaureate Core ("Bacc Core") courses, divided into 4 categories- Skills, Perspectives, Synthesis, and Difference, Power, and Discrimination (DPD). Some of these course requirements are met by technical courses within your major. Those Bacc Core requirements not fulfilled through technical course requirements are outlined below.

Skills (12 credits)

Course #	Credit Hours	Description	S/U Allowed
WR 121	3	English Composition	No
WR 327	3	Technical Writing	No
COMM 111 or 114	3	Public Speaking (COMM 111) or Argument and Critical Discourse COMM (114)	No
HHS 231	2	Lifetime Fitness for Health	Yes
HHS 24x or PAC	1	Lifetime Fitness or Physical Activity Courses	Yes

Perspectives (16 credits)

Course Categories	Credit Hours	S/U Allowed
Biological Science w/ Lab	4	No
Cultural Diversity	3	Yes
Literature & Arts	3	Yes
Social Processes & Institutions	3	Yes
Western Culture	3	Yes

Synthesis (6 credits)

Course Categories	Credit Hours	S/U Allowed
Contemporary Global Issues	3	Yes
Science, Technology, and Society	3	Yes

Difference, Power, & Discrimination (3 credits)- No S/U grading

Difference, Power, & Discrimination (DPD) Courses

All OSU undergraduate students are required to take a DPD course before graduation. Below is a condensed list of course offerings in DPD for BIOE students. BIOE students must take one of these DPD courses. Other university DPD courses that do not appear on this list will not be accepted towards the BIOE DPD requirement.

AG 301	Ecosystem science of Pacific NW Indians	3 credits
ANTH 251	Language in the USA	3 credits
ANTH 345	Biological and cultural constructions of race	3 credits
ANTH 451	Sociolinguistics	3 credits
ECON 383	The economics of discrimination	4 credits
ED 216	Purpose, Structure & Function of Education in a Democracy	3 credits
ENG 420	Studies in difference, power, and discrimination	3 credits
ES 212	Survey of Chicano/a-Latino/a studies III	3 credits
ES 213	Contemporary Latino/a culture and issues	3 credits
ES 216	Las presencia Mexicana en los Estados Unidos	3 credits
ES 221	Survey of African American studies I	3 credits
ES 223	Survey of African American studies III	3 credits
ES 233	Asian American Studies II: Activism & Empowerment	3 credits
ES 243	Native American experience in the 20th century U.S.	3 credits
ES 351	Ethnic minorities in Oregon	3 credits
ES 452	Ethnicity in film	3 credits
FW 340	Multicultural perspectives in natural resources	3 credits
H 465	Public health and women: social and policy issues	3 credits
HST 210	Religion in the United States	4 credits
HST 368	Lesbian and gay movements in modern America	3 credits
LING 251	Languages of Oregon	3 credits
MB 330	Disease and society	3 credits
PHL 280	Ethics of diversity	4 credits
PHL 380	The body, medicine and culture	3 credits
PS 363	Gender and race in American political thought	4 credits
PS 375	The civil rights movement and policies	4 credits
SOC 312	Sociology of the family	3 credits
SOC 426	Social inequality	3 credits
TA 360	Multicultural American Theatre	3 credits
TCS 200	Twentieth century realities: the U.S.	3 credits
WGSS 262	Introduction to Queer Studies	3 credits
WGSS 325	Disney: Gender, Race, Empire	3 credits
WGSS 414	Systems of oppression in women's lives	3 credits
WGSS 420	Hate, resistance, and reconciliation	3 credits

Advising Information & Policies

Advising Appointments

CBEE Advisors offer a few different appointment types for current and prospective students. Current students can book 20 or 50-minute advising appointments. For most students, a 20-minute advising appointment is appropriate for routine advising, including course planning, PIN obtainment, registration questions, and career advising. The 50-minute appointments are primarily recommended for students who need additional time to discuss academic standing (academic probation or suspension), transfer course articulations, 4-year plans, or study abroad course articulations.

We also offer 50-minute prospective and transfer student appointments, primarily intended for students interested in one of our majors at OSU but do not yet have a student account with OSU. These appointments can be booked up to 72-hours in advance. If you have transfer credits that you would like to discuss in your appointment, we recommend you email a copy of your transcripts to the advisor you book with.

Drop-In Advising

CBEE Advisors provide one drop-in time on weekdays. Please check our website for current drop-in times. These times are intended for students with quick 1-10 minute questions. Advisors will see students on a first-come, first-serve basis so you may not be able to see a specific advisor.

Drop-ins may be cancelled some days to conflicting university events or meetings. Always check our website for drop-in announcements: <https://cbee.oregonstate.edu/undergraduate-advising/appointments>.

Late & No Show Policies

If you are going to be late or are going to miss a scheduled advising appointment, the best thing you can do is let your advisor know and/or cancel your appointment. We understand that you can have things come up in your lives that may lead to a missed appointment, and it really helps us if you can let us know when this is going to happen.

Late Policy: If you arrive to a scheduled advising appointment 5 minutes or more late, you may be asked to reschedule. If you arrive 10 minutes or more late, you must reschedule. When we reserve time for you, we require all of that time to provide you with the best quality work possible. We understand true emergencies happen, so please do your best to let us know if you are going to be late.

No-Show Policy: No penalty for the first time you do not come to a scheduled appointment. If you "no-show" on a second appointment, we will not give you your PIN for registration until the final day of Phase I registration. If you schedule an appointment and need to cancel, please contact your advisor.

General Questions?

We have a Frequently Asked Questions page (<https://cbee.oregonstate.edu/undergraduate-advising/FAQs>) where we aggregate common student questions. If you don't see the question you need on this page, please email us your questions at cbee.advising@oregonstate.edu.

Important Links

CBEE Resources

CBEE Advising: <http://cbee.oregonstate.edu/undergraduate-advising>

Go to this site to book an appointment with your advisor! This page also contains general advising information and the latest copy of the advising guide.

CBEE Advising FAQs: <https://cbee.oregonstate.edu/undergraduate-advising/FAQs>

Frequently asked questions by CBEE students. Covers a range of topics from advising appointments to GPA requirements.

Research, Internships, and Careers: <http://cbee.oregonstate.edu/careers>.

Practical work experience in a research laboratory or in industry is essential to your future employment and educational goals. CBEE students have a variety of opportunities to develop laboratory skills and obtain career advice from faculty and peer mentors.

College of Engineering Resources

College of Engineering (COE): <http://engineering.oregonstate.edu/>

College of Engineering home page.

MY COE: <http://engineering.oregonstate.edu/my-coe>

Page with information about COE procedures and links to other OSU websites that are relevant to COE students.

Academic Support/Tutoring: <https://engineering.oregonstate.edu/current-students/academic-support>

Includes information about tutoring provided by the College of Engineering for a variety of science, math, and engineering courses.

OSU Resources

Student Online Services: <https://myosu.oregonstate.edu>

In your online account, you can register for classes, access MyDegrees, view & order transcripts, view account holds, and pay your student fees & tuition.

Catalog: <https://catalog.oregonstate.edu/>

The general OSU catalog contains information about all of the different major and minor programs at OSU, including course requirements and prerequisites.

OSU Schedule of Classes Searcher: <https://classes.oregonstate.edu/>

Use this tool to search for class availability sorted by term, requirement, subject, or campus.

Transfer Credits: <http://registrar.oregonstate.edu/transfer-credits>

General guide to transferring credits to OSU.

Transfer Course Search: https://adminfo.ucsadm.oregonstate.edu/prod/OSU_ADMTAM.P_tcs_splash_page

This tool allows you to search course equivalencies by the institution and course subject/number.

Registrar Forms: <http://registrar.oregonstate.edu/forms>

Forms relating to registration, grading, student records, veterans benefits, and graduation.

Bioengineering Course Articulations for Oregon Community Colleges

Revised 9/9/19

Below we list the course equivalencies for courses offered through the 17 Oregon community colleges. In the first two columns, we list the OSU course subjects and number along with the OSU credit hours for this course. These courses will match up with courses shown in the 4-year plan on the previous page. In the third and fourth columns, we list the course subject, number, and credit hours for the course(s) at the community college that will fulfill the same requirement.

Course offerings, equivalencies, and requirements are subject to change. Please reference the official OSU articulation tables and OSU Online catalog for a complete list of degree requirements.

OSU Catalog: <https://catalog.oregonstate.edu/>

Includes information regarding different OSU colleges, major, minors, and courses (including prerequisites and general course content).

Office of Admissions Course Articulations: <https://admissions.oregonstate.edu/course-articulations>

Includes information about how transfer courses are articulated at OSU. Includes lists of course equivalencies for OSU's most common transfer school partners, including but not limited to the 17 Oregon Community Colleges.

Office of Admissions Prospective Transfer Student information: <https://admissions.oregonstate.edu/prospective-transfer-student>

Describes components of an OSU degree and provides links to resources for prospective transfer students. Includes a link to the single-course search tool, which can help determine course articulations for institutions not appearing on the Office of Admissions Course Articulations page.

If you have any questions regarding the course equivalencies in this guide, please contact the CBEE advisors at cbee.advising@oregonstate.edu for assistance.

Blue Mountain Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231*	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232*	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233*	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry + Lab
CH 331	4	No equivalent	N/A	Organic Chemistry
CH 332	4	No equivalent	N/A	Organic Chemistry
CH 337	4	No equivalent	N/A	Organic Chemistry
COMM 111	3	COM 111	4	Public Speaking
COMM 114	3	No equivalent	N/A	Argument & Critical Discourse
ENGR 111	3	No equivalent	N/A	Engineering Orientation
ENGR 112	3	No equivalent	N/A	Engineering Computations
ENGR 201	3	No equivalent	N/A	Electrical Fundamentals
ENGR 211	3	No equivalent	N/A	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	BI 234	4	General Microbiology
MTH 251	4	MTH 251	4	Differential Calculus
MTH 252	4	MTH 252	4	Integral Calculus
MTH 254	4	MTH 254	4	Vector Calculus
MTH 256	4	MTH 256	4	Differential Equations
MTH 264	2	MTH 261**	4	Introduction to Matrix Algebra
MTH 265	2	MTH 253	4	Introduction to Series
PH 211	4	PHY 211	5	Physics with Calculus
PH 212	4	PHY 212	5	Physics with Calculus
PH 213	4	PHY 213	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

*Full series needs to be taken at the community college, does not transfer to OSU as an automatic equivalent. However, CBEE will accept the full series in place of our BI 231 & 233 requirement.

**MTH 261 transfers to OSU as a general MTH LDT credit, but CBEE will honor this towards the requirement for MTH 264.

Central Oregon Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry + Lab
CH 331	4	No equivalent	N/A	Organic Chemistry
CH 332	4	No equivalent	N/A	Organic Chemistry
CH 337	4	No equivalent	N/A	Organic Chemistry
COMM 111	3	SP 111	4	Public Speaking
COMM 114	3	SP 114	3	Argument & Critical Discourse
ENGR 111	3	GE 101	3	Engineering Orientation
ENGR 112	3	GE 102	3	Engineering Computations
ENGR 201	3	ENGR 201	4	Electrical Fundamentals
ENGR 211	3	ENGR 211	4	Statics
HHS 231 + 241	2 + 1	HHP 295	3	Lifetime Health & Fitness
MB 230	4	BI 234	4	General Microbiology
MTH 251	4	MTH 251	4	Differential Calculus
MTH 252	4	MTH 252	4	Integral Calculus
MTH 254	4	MTH 254	4	Vector Calculus
MTH 256	4	MTH 256	4	Differential Equations
MTH 264	2	MTH 261A*	2	Introduction to Matrix Algebra
MTH 265	2	MTH 253	4	Introduction to Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 213	5	Physics with Calculus
PH 213	4	PH 212	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

*MTH 261A transfers to OSU as a general MTH LDT credit, but CBEE will honor this towards the requirement for MTH 264.

Chemeketa Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231*	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232*	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233*	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry + Lab
CH 331	4	CH 242	4	Organic Chemistry
CH 332	4	CH 243	4	Organic Chemistry
CH 337	4	CH 241B + 242B + 243B**	1 + 1 + 1	Organic Chemistry
COMM 111	3	COMM 111	4	Public Speaking
COMM 114	3	COMM 112	4	Argument & Critical Discourse
ENGR 111	3	GE 101	3	Engineering Orientation
ENGR 112	3	GE 102 + GE 103	3 + 3	Engineering Computations
ENGR 201	3	EGR 201	4	Electrical Fundamentals
ENGR 211	3	EGR 211	4	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	BI 230	4	General Microbiology
MTH 251	4	MTH 251	5	Differential Calculus
MTH 252	4	MTH 252	5	Integral Calculus
MTH 254	4	MTH 254	5	Vector Calculus
MTH 256	4	MTH 256	4	Differential Equations
MTH 264 + 265	2 + 2	MTH 253 ***	5	Matrix & Power Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 212	5	Physics with Calculus
PH 213	4	PH 213	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

*Full series needs to be taken at the community college, does not transfer to OSU as an automatic equivalent. However, CBEE will accept the full series in place of our BI 231 & 233 requirement.

** Must take all three laboratory courses to be considered equivalent to OSU's CH 337.

*** MTH 253 will officially articulate at OSU as MTH 253, but CBEE will honor this course towards our requirement of MTH 264 & 265.

Clackamas Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231*	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232*	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233*	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry II + Lab
CH 331	4	CH 241	5	Organic Chemistry
CH 332	4	CH 243	5	Organic Chemistry
CH 337	4	CH 242	5	Organic Chemistry
COMM 111	3	COMM 111	4	Public Speaking
COMM 114	3	COMM 112	4	Argument & Critical Discourse
ENGR 111	3	ENGR 111	3	Engineering Orientation
ENGR 112	3	ENGR 112	3	Engineering Computations
ENGR 201	3	ENGR 221	4	Electrical Fundamentals
ENGR 211	3	ENGR 211	4	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	BI 204 or 234	4	General Microbiology
MTH 251	4	MTH 251	5	Differential Calculus
MTH 252	4	MTH 252	5	Integral Calculus
MTH 254	4	MTH 254	5	Vector Calculus
MTH 256	4	MTH 256	4	Differential Equations
MTH 264	2	MTH 261*	4	Introduction to Matrix Algebra
MTH 265	2	MTH 253	5	Introduction to Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 212	5	Physics with Calculus
PH 213	4	PH 213	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

*Full series needs to be taken at the community college, does not transfer to OSU as an automatic equivalent. However, CBEE will accept the full series in place of our BI 231 & 233 requirement.

**MTH 261 transfers to OSU as a general MTH LDT credit, but CBEE will honor this towards the requirement for MTH 264.

Clatsop Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry II + Lab
CH 331	4	No equivalent	N/A	Organic Chemistry
CH 332	4	No equivalent	N/A	Organic Chemistry
CH 337	4	No equivalent	N/A	Organic Chemistry
COMM 111	3	SP 111	3	Public Speaking
COMM 114	3	SP 112	3	Argument & Critical Discourse
ENGR 111	3	No equivalent	N/A	Engineering Orientation
ENGR 112	3	No equivalent	N/A	Engineering Computations
ENGR 201	3	No equivalent	N/A	Electrical Fundamentals
ENGR 211	3	No equivalent	N/A	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	BI 234	4	General Microbiology
MTH 251	4	MTH 251	4	Differential Calculus
MTH 252	4	MTH 252	4	Integral Calculus
MTH 254	4	No equivalent	N/A	Vector Calculus
MTH 256	4	No equivalent	N/A	Differential Equations
MTH 264	2	No equivalent	N/A	Introduction to Matrix Algebra
MTH 265	2	MTH 253	4	Introduction to Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 212	5	Physics with Calculus
PH 213	4	PH 213	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

Columbia Gorge Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	No equivalent	N/A	General Chemistry I + Lab
CH 232 + 262	4 + 1	No equivalent	N/A	General Chemistry II + Lab
CH 233 + 263	4 + 1	No equivalent	N/A	General Chemistry II + Lab
CH 331	4	No equivalent	N/A	Organic Chemistry
CH 332	4	No equivalent	N/A	Organic Chemistry
CH 337	4	No equivalent	N/A	Organic Chemistry
COMM 111	3	COMM 111	4	Public Speaking
COMM 114	3	No equivalent	N/A	Argument & Critical Discourse
ENGR 111	3	No equivalent	N/A	Engineering Orientation
ENGR 112	3	No equivalent	N/A	Engineering Computations
ENGR 201	3	No equivalent	N/A	Electrical Fundamentals
ENGR 211	3	No equivalent	N/A	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	BI 234	5	General Microbiology
MTH 251	4	MTH 251	5	Differential Calculus
MTH 252	4	MTH 252	5	Integral Calculus
MTH 254	4	No equivalent	N/A	Vector Calculus
MTH 256	4	No equivalent	N/A	Differential Equations
MTH 264	2	No equivalent	N/A	Introduction to Matrix Algebra
MTH 265	2	MTH 253	5	Introduction to Series
PH 211	4	No equivalent	N/A	Physics with Calculus
PH 212	4	No equivalent	N/A	Physics with Calculus
PH 213	4	No equivalent	N/A	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

Klamath Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BIO 231 + 231L	3 + 1	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BIO 232 + 232L	3 + 1	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BIO 233 + 233L	3 + 1	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CHE 221 + 221L	4 + 1	General Chemistry I + Lab
CH 232 + 262	4 + 1	CHE 222 + 222L	4 + 1	General Chemistry II + Lab
CH 233 + 263	4 + 1	CHE 223 + 223L	4 + 1	General Chemistry II + Lab
CH 331	4	No equivalent	N/A	Organic Chemistry
CH 332	4	No equivalent	N/A	Organic Chemistry
CH 337	4	No equivalent	N/A	Organic Chemistry
COMM 111	3	SPE 111	3	Public Speaking
COMM 114	3	No equivalent	N/A	Argument & Critical Discourse
ENGR 111	3	No equivalent	N/A	Engineering Orientation
ENGR 112	3	No equivalent	N/A	Engineering Computations
ENGR 201	3	No equivalent	N/A	Electrical Fundamentals
ENGR 211	3	No equivalent	N/A	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	No equivalent	N/A	General Microbiology
MTH 251	4	MTH 251	4	Differential Calculus
MTH 252	4	MTH 252	4	Integral Calculus
MTH 254	4	MTH 254	4	Vector Calculus
MTH 256	4	No equivalent	N/A	Differential Equations
MTH 264	2	No equivalent	N/A	Introduction to Matrix Algebra
MTH 265	2	No equivalent	N/A	Introduction to Series
PH 211	4	No equivalent	N/A	Physics with Calculus
PH 212	4	No equivalent	N/A	Physics with Calculus
PH 213	4	No equivalent	N/A	Physics with Calculus
WR 121	3	WRI 121	4	English Composition
WR 327	3	WRI 227	4	Technical Writing

Lane Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231*	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232*	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233*	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	6	General Chemistry I + Lab
CH 232 + 262	4 + 1	CH 222	6	General Chemistry II + Lab
CH 233 + 263	4 + 1	CH 223	6	General Chemistry II + Lab
CH 331	4	CH 241	6	Organic Chemistry
CH 332	4	CH 243	6	Organic Chemistry
CH 337	4	CH 242	6	Organic Chemistry
COMM 111	3	COMM 111	4	Public Speaking
COMM 114	3	COMM 112	4	Argument & Critical Discourse
ENGR 111	3	ENGR 101	3	Engineering Orientation
ENGR 112	3	ENGR 102**	4	Engineering Computations
ENGR 201	3	ENGR 221	4	Electrical Fundamentals
ENGR 211	3	ENGR 211	4	Statics
HHS 231 + 241	2 + 1	HE 275	3	Lifetime Health & Fitness
MB 230	4	BI 234	4	General Microbiology
MTH 251	4	MTH 251	5	Differential Calculus
MTH 252	4	MTH 252	5	Integral Calculus
MTH 254	4	MTH 254	4	Vector Calculus
MTH 256	4	MTH 256	4	Differential Equations
MTH 264	2	MTH 261***	2	Introduction to Matrix Algebra
MTH 265	2	MTH 253	5	Introduction to Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 212	5	Physics with Calculus
PH 213	4	PH 213	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

*Full series needs to be taken at the community college, does not transfer to OSU as an automatic equivalent. However, CBEE will accept the full series in place of our BI 231 & 233 requirement.

**ENGR 102 articulates as general ENGR LDT credit, but CBEE will honor this towards our ENGR 112 requirement.

***MTH 261 transfers to OSU as a general MTH LDT credit, but CBEE will honor this towards the requirement for MTH 264.

Linn-Benton Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231	5	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232	5	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233	5	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry II + Lab
CH 331	4	CH 241	4	Organic Chemistry
CH 332	4	CH 243	4	Organic Chemistry
CH 337	4	CH 242	4	Organic Chemistry
COMM 111	3	COMM 111	3	Public Speaking
COMM 114	3	COMM 114	3	Argument & Critical Discourse
ENGR 111	3	ENGR 111	4	Engineering Orientation
ENGR 112	3	ENGR 112	4	Engineering Computations
ENGR 201	3	ENGR 201	4	Electrical Fundamentals
ENGR 211	3	ENGR 211	4	Statics
HHS 231 + 241	2 + 1	PE 231	3	Lifetime Health & Fitness
MB 230	4	BI 234	4	General Microbiology
MTH 251	4	MTH 251	5	Differential Calculus
MTH 252	4	MTH 252	5	Integral Calculus
MTH 254	4	MTH 254	4	Vector Calculus
MTH 256	4	MTH 256	4	Differential Equations
MTH 264 + 265	2 + 2	MTH 253*	4	Matrix & Power Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 212	5	Physics with Calculus
PH 213	4	PH 213	5	Physics with Calculus
WR 121	3	WR 121	3	English Composition
WR 327	3	WR 227	3	Technical Writing

* MTH 253 will officially articulate at OSU as MTH 253, but CBEE will honor this course towards our requirement of MTH 264 & 265

Mount Hood Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231*	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232*	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233*	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry II + Lab
CH 331	4	CH 241	5	Organic Chemistry
CH 332	4	CH 243	5	Organic Chemistry
CH 337	4	CH 242	5	Organic Chemistry
COMM 111	3	COMM 111	4	Public Speaking
COMM 114	3	COMM 114	3	Argument & Critical Discourse
ENGR 111	3	GE 101	4	Engineering Orientation
ENGR 112	3	GE 102	3	Engineering Computations
ENGR 201	3	ENGR 201	5	Electrical Fundamentals
ENGR 211	3	ENGR 211	4	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	BI 234	4	General Microbiology
MTH 251	4	MTH 251	5	Differential Calculus
MTH 252	4	MTH 252	5	Integral Calculus
MTH 254	4	MTH 254	5	Vector Calculus
MTH 256	4	MTH 256	5	Differential Equations
MTH 264	2	MTH 261**	4	Introduction to Matrix Algebra
MTH 265	2	MTH 253	4	Introduction to Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 212	5	Physics with Calculus
PH 213	4	PH 213	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

*Full series needs to be taken at the community college, does not transfer to OSU as an automatic equivalent. However, CBEE will accept the full series in place of our BI 231 & 233 requirement.

**MTH 261 transfers to OSU as a general MTH LDT credit, but CBEE will honor this towards the requirement for MTH 264.

Oregon Coast Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry II + Lab
CH 331	4	No equivalent	N/A	Organic Chemistry
CH 332	4	No equivalent	N/A	Organic Chemistry
CH 337	4	No equivalent	N/A	Organic Chemistry
COMM 111	3	COMM 111	4	Public Speaking
COMM 114	3	COMM 112	4	Argument & Critical Discourse
ENGR 111	3	No equivalent	N/A	Engineering Orientation
ENGR 112	3	No equivalent	N/A	Engineering Computations
ENGR 201	3	No equivalent	N/A	Electrical Fundamentals
ENGR 211	3	No equivalent	N/A	Statics
HHS 231 + 241	2 + 1	HE 295 + PE 295	2 + 1	Lifetime Health & Fitness
MB 230	4	BI 234	5	General Microbiology
MTH 251	4	MTH 251	4	Differential Calculus
MTH 252	4	MTH 252	4	Integral Calculus
MTH 254	4	No equivalent	N/A	Vector Calculus
MTH 256	4	No equivalent	N/A	Differential Equations
MTH 264	2	No equivalent	N/A	Introduction to Matrix Algebra
MTH 265	2	MTH 253	5	Introduction to Series
PH 211	4	No equivalent	N/A	Physics with Calculus
PH 212	4	No equivalent	N/A	Physics with Calculus
PH 213	4	No equivalent	N/A	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

Portland Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry II + Lab
CH 331	4	CH 241	5	Organic Chemistry
CH 332	4	CH 243	5	Organic Chemistry
CH 337	4	CH 242	5	Organic Chemistry
COMM 111	3	COMM 111	4	Public Speaking
COMM 114	3	COMM 112	4	Argument & Critical Discourse
ENGR 111	3	ENGR 101	4	Engineering Orientation
ENGR 112	3	ENGR 114	4	Engineering Computations
ENGR 201	3	ENGR 221	5	Electrical Fundamentals
ENGR 211	3	ENGR 211	4	Statics
HHS 231 + 241	2 + 1	HE 295 + PE 295	2 + 1	Lifetime Health & Fitness
MB 230	4	BI 234	5	General Microbiology
MTH 251	4	MTH 251	4	Differential Calculus
MTH 252	4	MTH 252	4	Integral Calculus
MTH 254	4	MTH 254	5	Vector Calculus
MTH 256	4	MTH 256	5	Differential Equations
MTH 264	2	MTH 261	5	Introduction to Matrix Algebra
MTH 265	2	MTH 253	5	Introduction to Series
PH 211	4	PHY 211	5	Physics with Calculus
PH 212	4	PHY 212	5	Physics with Calculus
PH 213	4	PHY 213	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

Rogue Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231*	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232*	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233*	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CHEM 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CHEM 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CHEM 223	5	General Chemistry II + Lab
CH 331	4	No equivalent	N/A	Organic Chemistry
CH 332	4	No equivalent	N/A	Organic Chemistry
CH 337	4	No equivalent	N/A	Organic Chemistry
COMM 111	3	SP 111	4	Public Speaking
COMM 114	3	No equivalent	N/A	Argument & Critical Discourse
ENGR 111	3	No equivalent	N/A	Engineering Orientation
ENGR 112	3	No equivalent	N/A	Engineering Computations
ENGR 201	3	ENGR 201	3	Electrical Fundamentals
ENGR 211	3	ENGR 211	3	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	BI 234	4	General Microbiology
MTH 251	4	MTH 251	5	Differential Calculus
MTH 252	4	MTH 252	5	Integral Calculus
MTH 254	4	MTH 254	5	Vector Calculus
MTH 256	4	MTH 256	5	Differential Equations
MTH 264	2	MTH 261**	5	Introduction to Matrix Algebra
MTH 265	2	MTH 253	5	Introduction to Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 212	5	Physics with Calculus
PH 213	4	PH 213	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

*Full series needs to be taken at the community college, does not transfer to OSU as an automatic equivalent. However, CBEE will accept the full series in place of our BI 231 & 233 requirement.

**MTH 261 transfers to OSU as a general MTH LDT credit, but CBEE will honor this towards the requirement for MTH 264.

Southwestern Oregon Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CHEM 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CHEM 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CHEM 223	5	General Chemistry II + Lab
CH 331	4	CHEM 245	4	Organic Chemistry
CH 332	4	CHEM 247	4	Organic Chemistry
CH 337	4	CHEM 246	4	Organic Chemistry
COMM 111	3	SP 111	3	Public Speaking
COMM 114	3	SP 112	3	Argument & Critical Discourse
ENGR 111	3	ENGR 111	3	Engineering Orientation
ENGR 112	3	ENGR 112	4	Engineering Computations
ENGR 201	3	ENGR 201	4	Electrical Fundamentals
ENGR 211	3	ENGR 211	3	Statics
HHS 231 + 241	2 + 1	PE 231	3	Lifetime Health & Fitness
MB 230	4	BI 234	4	General Microbiology
MTH 251	4	MTH 251	4	Differential Calculus
MTH 252	4	MTH 252	4	Integral Calculus
MTH 254	4	MTH 254	4	Vector Calculus
MTH 256	4	MTH 256	4	Differential Equations
MTH 264	2	MTH 260	4	Introduction to Matrix Algebra
MTH 265	2	MTH 253	4	Introduction to Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 212	5	Physics with Calculus
PH 213	4	PH 213	5	Physics with Calculus
WR 121	3	WR 121	3	English Composition
WR 327	3	WR 327	3	Technical Writing

Tillamook Bay Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	No equivalent	N/A	General Chemistry I + Lab
CH 232 + 262	4 + 1	No equivalent	N/A	General Chemistry II + Lab
CH 233 + 263	4 + 1	No equivalent	N/A	General Chemistry II + Lab
CH 331	4	No equivalent	N/A	Organic Chemistry
CH 332	4	No equivalent	N/A	Organic Chemistry
CH 337	4	No equivalent	N/A	Organic Chemistry
COMM 111	3	COMM 111	4	Public Speaking
COMM 114	3	COMM 112	4	Argument & Critical Discourse
ENGR 111	3	No equivalent	N/A	Engineering Orientation
ENGR 112	3	No equivalent	N/A	Engineering Computations
ENGR 201	3	No equivalent	N/A	Electrical Fundamentals
ENGR 211	3	No equivalent	N/A	Statics
HHS 231 + 241	2 + 1	HE 295 + PE 295	2 + 1	Lifetime Health & Fitness
MB 230	4	BI 234	5	General Microbiology
MTH 251	4	MTH 251*	4	Differential Calculus
MTH 252	4	MTH 252	5	Integral Calculus
MTH 254	4	MTH 254	5	Vector Calculus
MTH 256	4	No equivalent	N/A	Differential Equations
MTH 264	2	No equivalent	N/A	Introduction to Matrix Algebra
MTH 265	2	MTH 253	5	Introduction to Series
PH 211	4	No equivalent	N/A	Physics with Calculus
PH 212	4	No equivalent	N/A	Physics with Calculus
PH 213	4	No equivalent	N/A	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 227	4	Technical Writing

*MTH 251 articulates to OSU as a general MTH LDT credit. CBEE will honor this course towards our MTH 251 requirement, provided you take MTH 252 at Tillamook Bay Community College as well.

Treasure Valley Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BIOL 231	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BIOL 232	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BIOL 233	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CHEM 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CHEM 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CHEM 223	5	General Chemistry II + Lab
CH 331	4	CHEM 227	5	Organic Chemistry
CH 332	4	CHEM 229	5	Organic Chemistry
CH 337	4	CHEM 228	5	Organic Chemistry
COMM 111	3	SP 111	3	Public Speaking
COMM 114	3	No equivalent	N/A	Argument & Critical Discourse
ENGR 111	3	No equivalent	N/A	Engineering Orientation
ENGR 112	3	No equivalent	N/A	Engineering Computations
ENGR 201	3	No equivalent	N/A	Electrical Fundamentals
ENGR 211	3	No equivalent	N/A	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	BIOL 234	4	General Microbiology
MTH 251	4	MATH 251	5	Differential Calculus
MTH 252	4	MATH 252	5	Integral Calculus
MTH 254	4	No equivalent	N/A	Vector Calculus
MTH 256	4	No equivalent	N/A	Differential Equations
MTH 264	2	No equivalent	N/A	Introduction to Matrix Algebra
MTH 265	2	MATH 253	5	Introduction to Series
PH 211	4	PHYS 211	5	Physics with Calculus
PH 212	4	PHYS 212	5	Physics with Calculus
PH 213	4	PHYS 213	5	Physics with Calculus
WR 121	3	WR 121	3	English Composition
WR 327	3	No equivalent	N/A	Technical Writing

Umpqua Community College

OSU Course #	OSU Credit Hours	CC Course #	CC Credit Hours	Description
BI 231 + 241	3 + 2	BI 231	4	Human Anatomy & Physiology
BI 232 + 242	3 + 2	BI 232	4	Human Anatomy & Physiology
BI 233 + 243	3 + 2	BI 233	4	Human Anatomy & Physiology
CH 231 + 261	4 + 1	CH 221	5	General Chemistry I + Lab
CH 232 + 262	4 + 1	CH 222	5	General Chemistry II + Lab
CH 233 + 263	4 + 1	CH 223	5	General Chemistry II + Lab
CH 331	4	CH 241	4	Organic Chemistry
CH 332	4	CH 243	4	Organic Chemistry
CH 337	4	CH 242	4	Organic Chemistry
COMM 111	3	SP 111	4	Public Speaking
COMM 114	3	SP 112	3	Argument & Critical Discourse
ENGR 111	3	ENGR 111	3	Engineering Orientation
ENGR 112	3	ENGR 112	3	Engineering Computations
ENGR 201	3	ENGR 201	4	Electrical Fundamentals
ENGR 211	3	ENGR 211	4	Statics
HHS 231 + 241	2 + 1	HPE 295	3	Lifetime Health & Fitness
MB 230	4	No equivalent	N/A	General Microbiology
MTH 251	4	MTH 251	5	Differential Calculus
MTH 252	4	MTH 252	4	Integral Calculus
MTH 254	4	MTH 254	4	Vector Calculus
MTH 256	4	MTH 256	4	Differential Equations
MTH 264	2	MTH 261*	2	Introduction to Matrix Algebra
MTH 265	2	MTH 253	4	Introduction to Series
PH 211	4	PH 211	5	Physics with Calculus
PH 212	4	PH 212	5	Physics with Calculus
PH 213	4	PH 213	5	Physics with Calculus
WR 121	3	WR 121	4	English Composition
WR 327	3	WR 327	4	Technical Writing

*MTH 261 transfers to OSU as a general MTH LDT credit, but CBEE will honor this towards the requirement for MTH 264.