## COURSE DESCRIPTIONS

Refer to the glossary below for how to read each course description. Additional enrollment information, such as registration restrictions, fees and class notes, are available in the Schedule of Classes (https://classes.oregonstate.edu/).

### Subject Code
- An abbreviation used with a course number to indicate an academic subject area

### Course Number
- Each course is assigned a course level. Courses numbered 100–499 are undergraduate courses (100–299 are lower division, 300–499 are upper division). Courses numbered 500 and above are graduate or professional/technical (500-699 are for masters or doctoral students and 700-899 are professional or technical courses for advanced degrees)

### Credits
- The number of quarter credits awarded for successful completion of the course

### Description
- A brief overview of the course content. If no description is listed, refer to the Schedule of Classes (https://classes.oregonstate.edu/) for details

### Attributes
- Courses that meet a specific educational requirement
  - Baccalaureate Core Courses (BCC) and Writing Intensive Courses (WIC) are indicated by attributes beginning with ‘Core.’ Titles with an asterisk* are BCC courses and titles with a caret^ are WIC courses. All BCC and WIC courses are listed in the Baccalaureate Core (http://catalog.oregonstate.edu/earning-degrees/bcc/) section of this Catalog
  - PAC courses always meet the lower-division Fitness Core requirement and are therefore not indicated with the BCC attribute or asterisk
  - Honors courses for students registered with the Honors College are indicated by the HNRS attribute
  - Courses that meet the College of Liberal Arts core requirement begin with the LA attribute

### Prerequisites
- Courses or other educational requirements (eg. placement test) that must be completed prior to registering for another course or before proceeding to more advanced study. Concurrency will be indicated if you are allowed to enroll in the prerequisite at the same time. Minimum passing grade is indicated in brackets or parentheses
  - If you do not meet the prerequisites but you believe you have the necessary knowledge to be successful in the course, consult your advisor. The department has the final say on whether you are permitted to enroll in a course without the specific prerequisite
  - Some classes may be restricted by campus, degree, program or class standing, or require departmental approval. Registration restrictions are indicated in the Schedule of Classes (https://classes.oregonstate.edu/) not the Catalog

### Corequisites
- Courses you must enroll in at the same time with another course

### Equivalency
- A course that is equivalent to the selected course. Credit will only be awarded for one of these courses. Crosslisted courses are indicated with equivalency and in the course description as ‘CROSSLISTED’

### Repeatability
- If the course can be taken multiple times for credit towards graduation, it will be indicated as “This course is repeatable for...credits”

### Recommended
- Suggested background knowledge or college-level courses that you are encouraged to have completed prior to enrolling in the selected course. If you do not have the recommended background, consult your advisor or the course instructor regarding your suitability

### Available via Ecampus
- The course has been taught online in the past two years. Refer to the Schedule of Classes (https://classes.oregonstate.edu/) for current scheduling and campus availability.

### A
- Academic Learning Services (ALS) (http://catalog.oregonstate.edu/courses/als/)
- Accounting (ACTG) (http://catalog.oregonstate.edu/courses/actg/)
- Adult Ed & Higher Ed Leadership (AHE) (http://catalog.oregonstate.edu/courses/ahe/)
- Aeronautical & Astronaut. Eng. (AAE) (http://catalog.oregonstate.edu/courses/aae/)
- Aerospace Studies (AS) (http://catalog.oregonstate.edu/courses/as/)
- Agricultural Education (AED) (http://catalog.oregonstate.edu/courses/aed/)
- Agricultural Sci, College of (AGRI) (http://catalog.oregonstate.edu/courses/agri/)
- Agriculture-General (AG) (http://catalog.oregonstate.edu/courses/ag/)
- American Sign Language (ASL) (http://catalog.oregonstate.edu/courses/asl/)
- American Studies Program (AMS) (http://catalog.oregonstate.edu/courses/ams/)
- Animal Sciences (ANS) (http://catalog.oregonstate.edu/courses/ans/)
- Anthropology (ANTH) (http://catalog.oregonstate.edu/courses/anth/)
- Applied Economics (AEC) (http://catalog.oregonstate.edu/courses/aec/)
- Applied Journalism (AJ) (http://catalog.oregonstate.edu/courses/aj/)
- Arabic (ARAB) (http://catalog.oregonstate.edu/courses/arab/)
- Architectural Engineering (ARE) (http://catalog.oregonstate.edu/courses/are/)
- Art (ART) (http://catalog.oregonstate.edu/courses/art/)
- Asian Languages and Culture (ASN) (http://catalog.oregonstate.edu/courses/asn/)
- Atmospheric Sciences (ATS) (http://catalog.oregonstate.edu/courses/ats/)

### B
- Biochemistry and Biophysics (BB) (http://catalog.oregonstate.edu/courses/bb/)
- BioHealth Sciences (BHS) (http://catalog.oregonstate.edu/courses/bhs/)
- Biological & Ecological Engr (BEE) (http://catalog.oregonstate.edu/courses/bee/)
- Biological Data Sciences (BDS) (http://catalog.oregonstate.edu/courses/bds/)
• Biological Engineering (BIOE) (http://catalog.oregonstate.edu/courses/bioe/)
• Biology (BI) (http://catalog.oregonstate.edu/courses/bi/)
• Bioresource Research (BRR) (http://catalog.oregonstate.edu/courses/brr/)
• Botany and Plant Pathology (BOT) (http://catalog.oregonstate.edu/courses/bot/)
• Business Administration (BA) (http://catalog.oregonstate.edu/courses/ba/)

C
• Chem, Bio, Enviro Engineering (CBEE) (http://catalog.oregonstate.edu/courses/cbee/)
• Chemical Engineering (CHE) (http://catalog.oregonstate.edu/courses/che/)
• Chemistry (CH) (http://catalog.oregonstate.edu/courses/ch/)
• Chinese (CHN) (http://catalog.oregonstate.edu/courses/chn/)
• Civil and Construction Engr (CCE) (http://catalog.oregonstate.edu/courses/ceed/)
• Civil Engineering (CE) (http://catalog.oregonstate.edu/courses/ce/)
• College Student Services Admin (CSSA) (http://catalog.oregonstate.edu/courses/cssa/)
• Communication (COMM) (http://catalog.oregonstate.edu/courses/comm/)
• Computer Science (CS) (http://catalog.oregonstate.edu/courses/cs/)
• Construction Engineering Mngmt (CEM) (http://catalog.oregonstate.edu/courses/cem/)
• Counseling (COUN) (http://catalog.oregonstate.edu/courses/coun/)
• Crop & Soil Science (CSS) (http://catalog.oregonstate.edu/courses/css/)
• Crop Science (CROP) (http://catalog.oregonstate.edu/courses/crop/)

D
• Design (DSGN) (http://catalog.oregonstate.edu/courses/dsgn/)

E
• Economics (ECON) (http://catalog.oregonstate.edu/courses/econ/)
• Education (ED) (http://catalog.oregonstate.edu/courses/ed/)
• Electrical & Computer Engineer (ECE) (http://catalog.oregonstate.edu/courses/ece/)
• Energy Systems Engineering (ESE) (http://catalog.oregonstate.edu/courses/ese/)
• Engineering Science (ENGR) (http://catalog.oregonstate.edu/courses/engr/)
• English (ENG) (http://catalog.oregonstate.edu/courses/eng/)
• Entomology (ENT) (http://catalog.oregonstate.edu/courses/ent/)
• Environmental Arts &Humanities (EAH) (http://catalog.oregonstate.edu/courses/eah/)
• Environmental Engineering (ENVE) (http://catalog.oregonstate.edu/courses/enve/)
• Environmental Sciences (ENSC) (http://catalog.oregonstate.edu/courses/ensc/)
• Ethnic Studies (ES) (http://catalog.oregonstate.edu/courses/es/)

F
• Film Studies (FiLM) (http://catalog.oregonstate.edu/courses/film/)
• Finance (FIN) (http://catalog.oregonstate.edu/courses/fin/)
• Fisheries and Wildlife (FW) (http://catalog.oregonstate.edu/courses/fw/)
• Food in Culture, Social Justice (FCSJ) (http://catalog.oregonstate.edu/courses/fcsj/)
• Food Science and Technology (FST) (http://catalog.oregonstate.edu/courses/fst/)
• Forest Ecosystems and Society (FES) (http://catalog.oregonstate.edu/courses/fes/)
• Forestry (FOR) (http://catalog.oregonstate.edu/courses/for/)
• French (FR) (http://catalog.oregonstate.edu/courses/fr/)

G
• General Science (GS) (http://catalog.oregonstate.edu/courses/gs/)
• Geography (GEOG) (http://catalog.oregonstate.edu/courses/geog/)
• Geophysics (GPH) (http://catalog.oregonstate.edu/courses/gph/)
• Geosciences (GEO) (http://catalog.oregonstate.edu/courses/geo/)
• German (GER) (http://catalog.oregonstate.edu/courses/ger/)
• Graduate Education (GRAD) (http://catalog.oregonstate.edu/courses/grad/)
• Graphic Design (GD) (http://catalog.oregonstate.edu/courses/gd/)

H
• Health and Human Sciences (HHS) (http://catalog.oregonstate.edu/courses/hhs/)
• Hebrew (HEBR) (http://catalog.oregonstate.edu/courses/hebr/)
• History (HIST) (http://catalog.oregonstate.edu/courses/hist/)
• History of Science (HSTS) (http://catalog.oregonstate.edu/courses/hsts/)
• Honors College (HC) (http://catalog.oregonstate.edu/courses/hc/)
• Horticulture (HORT) (http://catalog.oregonstate.edu/courses/hort/)
• Hospitality Management (HM) (http://catalog.oregonstate.edu/courses/hm/)
• Human Dev and Family Sciences (HDFS) (http://catalog.oregonstate.edu/courses/hdfs/)
• Humanitarian Engr Sci & Tech (HEST) (http://catalog.oregonstate.edu/courses/hest/)

I
• Industrial and Mfg Engineering (IE) (http://catalog.oregonstate.edu/courses/ie/)
• Integrative Biology (IB) (http://catalog.oregonstate.edu/courses/ib/)
• Intensive English Pgm Acad Eng (IEPA) (http://catalog.oregonstate.edu/courses/iepa/)
• Intensive English Pgm Gen Engl (IEPG) (http://catalog.oregonstate.edu/courses/iepg/)
• Intensive English Pgm Gen Engl (IEPH) (http://catalog.oregonstate.edu/courses/ieph/)
• Interdisciplinary Programs (IST) (http://catalog.oregonstate.edu/courses/ist/)
• International Degree (INTL) (http://catalog.oregonstate.edu/courses/intl/)
• Italian (IT) (http://catalog.oregonstate.edu/courses/it/)

J
• Japanese (JPN) (http://catalog.oregonstate.edu/courses/jpn/)

K
• Kinesiology (KIN) (http://catalog.oregonstate.edu/courses/kin/)
• Korean (KOR) (http://catalog.oregonstate.edu/courses/kor/)

L
• Leadership (LEAD) (http://catalog.oregonstate.edu/courses/lead/)
• Liberal Arts (LA) (http://catalog.oregonstate.edu/courses/la/)
• Liberal Studies (LS) (http://catalog.oregonstate.edu/courses/ls/)
• Library & Information Science (LIB) (http://catalog.oregonstate.edu/courses/lib/)
• Linguistics (LING) (http://catalog.oregonstate.edu/courses/ling/)

M
• Management (MGMT) (http://catalog.oregonstate.edu/courses/mgmt/)
• Manufacturing Engineering (MFGE) (http://catalog.oregonstate.edu/courses/mfge/)
• Marine Resource Management (MRM) (http://catalog.oregonstate.edu/courses/mrm/)
• Marine Studies (MAST) (http://catalog.oregonstate.edu/courses/mast/)
• Marketing (MRKT) (http://catalog.oregonstate.edu/courses/mrkt/)
• Master of Natural Resources (MNR) (http://catalog.oregonstate.edu/courses/mnr/)
• Master of Public Policy (MPP) (http://catalog.oregonstate.edu/courses/mpp/)
• Materials Science (MATS) (http://catalog.oregonstate.edu/courses/mats/)
• Mathematics (MTH) (http://catalog.oregonstate.edu/courses/mth/)
• Mech/Ind/Manuf Engineering (MIME) (http://catalog.oregonstate.edu/courses/mime/)
• Mechanical Engineering (ME) (http://catalog.oregonstate.edu/courses/me/)
• Microbiology (MB) (http://catalog.oregonstate.edu/courses/mb/)
• Military Science (MS) (http://catalog.oregonstate.edu/courses/ms/)
• Molecular & Cellular Biology (MCB) (http://catalog.oregonstate.edu/courses/mcb/)
• Music (MUS) (http://catalog.oregonstate.edu/courses/mus/)
• Music (Studio) (MUP) (http://catalog.oregonstate.edu/courses/mup/)
• Music Education (MUED) (http://catalog.oregonstate.edu/courses/mued/)

N
• Natural Resources (NR) (http://catalog.oregonstate.edu/courses/nr/)
• Naval Science (NS) (http://catalog.oregonstate.edu/courses/ns/)
• New Media Communications (NMC) (http://catalog.oregonstate.edu/courses/nmc/)
• Nuclear Science & Engineering (NSE) (http://catalog.oregonstate.edu/courses/nse/)
• Nursing (NUR) (http://catalog.oregonstate.edu/courses/nur/)
• Nutrition (NUTR) (http://catalog.oregonstate.edu/courses/nutr/)

O
• Ocean Earth & Atmospheric Sci (OEAS) (http://catalog.oregonstate.edu/courses/oeas/)
• Oceanography (OC) (http://catalog.oregonstate.edu/courses/oc/)
• Outdoor Products (OP) (http://catalog.oregonstate.edu/courses/op/)

P
• Peace Studies (PAX) (http://catalog.oregonstate.edu/courses/pax/)
• Pharmacy (PHAR) (http://catalog.oregonstate.edu/courses/phar/)
• Philosophy (PHL) (http://catalog.oregonstate.edu/courses/phl/)
• Physical Activity Courses (PAC) (http://catalog.oregonstate.edu/courses/pac/)
• Physical Therapy/Therapist (PT) (http://catalog.oregonstate.edu/courses/pt/)
• Physics (PH) (http://catalog.oregonstate.edu/courses/ph/)
• Plant Breeding & Genetics (PBG) (http://catalog.oregonstate.edu/courses/pbg/)
• Political Science (PS) (http://catalog.oregonstate.edu/courses/ps/)
• Professional Science Masters (PSM) (http://catalog.oregonstate.edu/courses/psm/)
• Psychology (PSY) (http://catalog.oregonstate.edu/courses/psy/)
• Public Health (H) (http://catalog.oregonstate.edu/courses/h/)
• Public Policy (PPOL) (http://catalog.oregonstate.edu/courses/ppol/)
• Queer Studies (QS) (http://catalog.oregonstate.edu/courses/qs/)

R
• Rangeland Ecology & Management (RNG) (http://catalog.oregonstate.edu/courses/rng/)
• Religious Studies (REL) (http://catalog.oregonstate.edu/courses/rel/)
• Robotics (ROB) (http://catalog.oregonstate.edu/courses/rob/)
• Russian (RUS) (http://catalog.oregonstate.edu/courses/rus/)

S
• Science & Mathematics Educ (SED) (http://catalog.oregonstate.edu/courses/sed/)
• Science (SCI) (http://catalog.oregonstate.edu/courses/sci/)
• Science of Engineering (ESCO) (http://catalog.oregonstate.edu/courses/esc/)
• Social Science (SSCI) (http://catalog.oregonstate.edu/courses/ssci/)
• Sociology (SOC) (http://catalog.oregonstate.edu/courses/soc/)
• Software Engineering (SE) (http://catalog.oregonstate.edu/courses/see/)
• Soil Science (SOIL) (http://catalog.oregonstate.edu/courses/soil/)
• Spanish (SPAN) (http://catalog.oregonstate.edu/courses/span/)
• Statistics (ST) (http://catalog.oregonstate.edu/courses/st/)
• Sustainability (SUS) (http://catalog.oregonstate.edu/courses/sus/)
• Sustainable Natural Resources (SNR) (http://catalog.oregonstate.edu/courses/snr/)

T
• Theatre Arts (TA) (http://catalog.oregonstate.edu/courses/ta/)
• Tourism, Recreat, Adven. Lead. (TRAL) (http://catalog.oregonstate.edu/courses/tral/)
• Toxicology (TOX) (http://catalog.oregonstate.edu/courses/tox/)
• Twentieth Century Studies (TCS) (http://catalog.oregonstate.edu/courses/tcs/)

U
• University Experience (UEXP) (http://catalog.oregonstate.edu/courses/uexp/)

V
• Veterinary Medicine Biomedical (VMB) (http://catalog.oregonstate.edu/courses/vmb/)
• Veterinary Medicine Clinical (VMC) (http://catalog.oregonstate.edu/courses/vmc/)

W
• Water Resources Engineering (WRE) (http://catalog.oregonstate.edu/courses/wre/)
• Water Resources Policy and Mgt (WRP) (http://catalog.oregonstate.edu/courses/wrp/)
• Water Resources Science (WRS) (http://catalog.oregonstate.edu/courses/wrs/)
• Women, Gender, and Sexuality (WGSS) (http://catalog.oregonstate.edu/courses/wgss/)
• Wood Science and Engineering (WSE) (http://catalog.oregonstate.edu/courses/wse/)
• World Languages and Cultures (WLC) (http://catalog.oregonstate.edu/courses/wlc/)
• Written English (WR) (http://catalog.oregonstate.edu/courses/wr/)

Z
• Zoology (Z) (http://catalog.oregonstate.edu/courses/z/)