

# TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

**CORVALLIS**

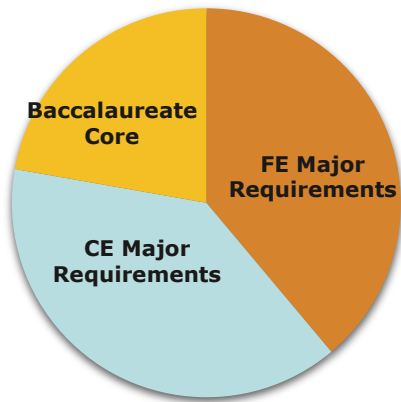
**Central Oregon  
Community College**

## Forest - Civil Engineering Major

The Forest-Civil Engineering five year, double degree program results in a BS in Forest Engineering and a BS in Civil Engineering and is offered in cooperation with the School of Civil and Construction Engineering.

This degree expands the career opportunities of graduates by allowing them to work in both rural and urban areas, and for a wide variety of employers.

## Your Bachelor's Degree (BS) in Forest-Civil Engineering



- A minimum of 236-238 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 135 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- Only courses with letter prefixes and numbers above 100 are accepted.
- Six months of work experience related to the field
- Meet admission criteria for Forest Engr Pro-School (minimum grades of C in all major courses and 2.25 GPA in major courses)
- [forestry.oregonstate.edu/undergraduate-programs/fe/forest-engineering-and-civil-engineering](http://forestry.oregonstate.edu/undergraduate-programs/fe/forest-engineering-and-civil-engineering)

## Courses Required for Forest-Civil Engineering Major

| FE/CE Major Requirements – Years 1 & 2                                            | COCC Course           | OSU Course            | Notes                                              |
|-----------------------------------------------------------------------------------|-----------------------|-----------------------|----------------------------------------------------|
| Civil & Construction Engr Graphics & Design                                       | CIS 125A1OR CIS 135C1 | CCE 201               |                                                    |
| Chemistry for Engineering Majors I                                                | CH 221 substitutes    | CH 201                | Available online at OSU                            |
| Chemistry for Engineering Majors II                                               | CH 222 substitutes    | CH 202                | Available online at OSU                            |
| Lab for CH 202                                                                    | CH 221 substitutes    | CH 205                |                                                    |
| Public Speaking or Argument & Critical Discourse                                  | COMM 111Z or COMM 114 | COMM 111Z or COMM 114 | Available online at OSU<br>Available online at OSU |
| Intro to Microeconomics                                                           | EC 201                | ECON 201              | Available online at OSU                            |
| The Oregon State Engineering Student Design Engineering & Problem-Solving         | GE 101                | ENGR 100              | Available online at OSU                            |
| Statics                                                                           | ENGR 211              | ENGR 211              | Available online at OSU                            |
| Dynamics                                                                          | ENGR 212              | ENGR 212              | Available online at OSU                            |
| Strength of Materials                                                             | ENGR 213              | ENGR 213              | Available online at OSU                            |
| Intro to Forest Engineering                                                       |                       | FE 101                |                                                    |
| Forest Engineering Problem-Solving & Tech Engr Computation & Algorithmic Thinking | GE 102                | FE 102<br>ENGR 103    | Available online at OSU                            |
| Forest Surveying or Surveying Theory                                              | FOR 230B              | FE 208<br>CE 361      | Available online at OSU                            |
| GIS and Forest Engineering Applications                                           | GEOG 265              | FE 257                | Available online at OSU                            |
| Forest Biology                                                                    | FOR 240A              | FES 240               | Available online at OSU                            |
| Dendrology                                                                        | FOR 241A & 241B       | FES 241               | Available online at OSU                            |
| Differential Calculus                                                             | MTH 251               | MTH 251               | Available online at OSU                            |
| Integral Calculus                                                                 | MTH 252               | MTH 252               | Available online at OSU                            |
| Vector Calculus                                                                   | MTH 254               | MTH 254               | Available online at OSU                            |
| Applied Differential Equations                                                    | MTH 256               | MTH 256               | Available online at OSU                            |
| Intro to Matrix Algebra                                                           |                       | MTH 264               | Available online at OSU                            |
| Intro to Series                                                                   |                       | MTH 265               | Available online at OSU                            |

| <b>FE/CE Major Requirements – Years 1 &amp; 2</b> | <b>COCC Course</b> | <b>OSU Course</b> | <b>Notes</b>            |
|---------------------------------------------------|--------------------|-------------------|-------------------------|
| General Physics with Calculus I                   | PH 211             | PH 211            |                         |
| General Physics with Calculus II                  | PH 212             | PH 212            |                         |
| General Physics with Calculus III                 | PH 213             | PH 213            |                         |
| Soil Science                                      | FOR 208            | SOIL 205          |                         |
| Forest Soils Lab                                  | FOR 208            | FOR 206           |                         |
| Intro to Statistics for Engineers                 |                    | ST 314            | Available online at OSU |
| English Composition I                             | WR 121Z            | WR 121Z           | Available online at OSU |
| Technical Writing                                 | WR 227Z            | WR 227Z           | Available online at OSU |

| <b>FE/CE Major Requirements – Yrs 3, 4 &amp; 5</b>                                 | <b>COCC Course</b> | <b>OSU Course</b>  | <b>Notes</b>                                       |
|------------------------------------------------------------------------------------|--------------------|--------------------|----------------------------------------------------|
| Civil & Construction Engineering Materials                                         |                    | CCE 321            |                                                    |
| Fluid Mechanics                                                                    |                    | CE 311             |                                                    |
| Hydraulic Engineering                                                              |                    | CE 313             |                                                    |
| Structural Theory I                                                                |                    | CE 381             |                                                    |
| Structural Theory II                                                               |                    | CE 382             |                                                    |
| Design of Steel Structures                                                         |                    | CE 383             |                                                    |
| Intro to Highway Engineering                                                       |                    | CE 392             |                                                    |
| Civil Engineering Professional Practice                                            |                    | CE 418             |                                                    |
| Civil Infrastructure Design                                                        |                    | CE 419             |                                                    |
| Reinforced Concrete I                                                              |                    | CE 481             |                                                    |
| Transportation Engineering                                                         |                    | CE 491             |                                                    |
| Environmental Engineering                                                          |                    | ENVE 321           |                                                    |
| Forest Route Surveying                                                             |                    | FE 310             |                                                    |
| Forestry Field School                                                              |                    | FE 312             |                                                    |
| Soil Engineering                                                                   |                    | FE 315             |                                                    |
| Soil Mechanics                                                                     |                    | FE 316             |                                                    |
| Harvesting Process Engineering                                                     |                    | FE 371             |                                                    |
| Forest Road Engineering                                                            |                    | FE 415             |                                                    |
| Forest Road System Management                                                      |                    | FE 416             |                                                    |
| Forest Watershed Management                                                        |                    | FE 434             |                                                    |
| Forest Operations Analysis                                                         |                    | FE 440             |                                                    |
| Forestry Remote Sensing & Photogrammetry                                           |                    | FE 444             |                                                    |
| Techniques for Forest Resource Analysis                                            |                    | FE 457             |                                                    |
| Forest Management Planning & Design I                                              |                    | FE 459             |                                                    |
| Forest Operations Regulations & Policy Issues                                      |                    | FE 460             |                                                    |
| Forest Management Planning & Design II                                             |                    | FE 469             |                                                    |
| Logging Mechanics                                                                  |                    | FE 470             |                                                    |
| Forest Engr Practice & Professionalism                                             |                    | FE 480             |                                                    |
| Forest Mensuration                                                                 |                    | FOR 321            |                                                    |
| Forest Resource Economics I                                                        |                    | FOR 329            |                                                    |
| Forest Resource Economics II                                                       |                    | FOR 332            |                                                    |
| Silvicultural Principles                                                           |                    | FOR 441            |                                                    |
| Sustainability for the Common Good or Endangered Species, Society & Sustainability |                    | GEOG 300 or FW 350 | Available online at OSU<br>Available online at OSU |

## General Education Courses (called the Baccalaureate Core)

- Complete one course in each Perspective category with no more than two in the same department.
- Full listing of COCC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-central-oregon-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-central-oregon-community-college)

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SKILLS COURSES</b>      | Math<br>Writing I<br>Writing II<br>Speech (Writing III)<br>Fitness                                                                                                                           | Completed as part of major: MTH 251 or higher<br>WR 121Z. Required to transfer.<br>Completed as part of major: WR 227Z<br>Completed as part of major: COMM 111Z or 114<br>HHP 295                                                                                                                                |
| <b>PERSPECTIVE COURSES</b> | Biological Science<br>Physical Science<br>Additional Biological or Physical Science<br>Cultural Diversity<br>Literature and the Arts<br>Social Processes and Institutions<br>Western Culture | Completed as part of major: FES 240<br>Completed as part of major: PH 211<br>Completed as part of major: SOIL 205 & FOR 206<br>Choose one course from Bacc Core link above<br>Choose one course from Bacc Core link above<br>Completed as part of major: ECON 201<br>Choose one course from Bacc Core link above |
| <b>DPD COURSE</b>          | Difference, Power, & Discrimination                                                                                                                                                          | Choose one course from Bacc Core link above                                                                                                                                                                                                                                                                      |
| <b>SYNTHESIS COURSES</b>   | Contemporary Global Issues<br>Science, Technology, & Society                                                                                                                                 | Upper-division course: complete at OSU<br>Completed as part of major: GEOG 300 or FW 350                                                                                                                                                                                                                         |

## Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. **See your community college advisor first and use this Transfer Guide to help you plan.** It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See [visitosu.oregonstate.edu/visit-campus](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

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|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Central Oregon Community College</b>                    | Rebecca Franklin, Forestry Faculty<br>541-330-4378<br><a href="mailto:rfranklin@cocc.edu">rfranklin@cocc.edu</a>     |
| <b>OSU College of Forestry<br/>Student Services Office</b> | 541-737-1594<br><a href="mailto:forestrystudentservices@oregonstate.edu">forestrystudentservices@oregonstate.edu</a> |