ECOLOGICAL ENGINEERING (Recommended)

**FIRST YEAR**

**Fall**
- BEE 101 or ENGR 111
- CH 231/261 Chemistry
- MTH 251 Differential Calculus
- WR 121 English Composition

**Winter**
- COMM 111/114 Speech
- CH 232/262 Chemistry
- MTH 252 Integral Calculus
- Lifetime Fitness e.g. HHS 231 + Lab.

**Spring**
- BEE 102 or ENGR 112
- CH 233/263 Chemistry
- MTH 254 Vector Calculus
- PH 211 Physics w/ Calculus

**SECOND YEAR**

**Fall**
- BI 211 Principles of Biology
- ENGR 211 Co-Req
- MTH 256 Differential Equations
- ST 314 Statistics for Engineers

**Winter**
- BI 212 Principles of Biology
- BEE 221 EcoE Fundamentals
- PH 212 Physics w/ Calculus
- MTH 254 Co-Req

**Spring**
- BI 213 Principles of Biology
- ENGR 213 Strength of Materials
- BEE 221 EcoE Computation
- WR 327 Technical Report Writing

Shaded courses are required by the college prior to admission to the Professional Engineering Program.

Shaded courses are additional prerequisites for third-year courses.

**Academic Year: 2017-2018**

Rev. 5/2015
ECOLOGICAL ENGINEERING (Proposed)

Additional courses not requiring admission to the Professional Engineering Program

**BI 370**  
Ecology

**SOIL 205/206**  
Soil Science

**ATS 320**  
The Changing Climate

**AREC 250**  
Intro. Environ. Econ. & Policy

**ENGR 391**  
Engineering Economics

**Perspectives**  
Western Culture

**Perspectives**  
Cultural Diversity

**Perspectives**  
Literature & Arts

**Perspectives**  
Social Processes & Institutions

**Difference, Power & Discrimination**

**Synthesis**  
Global Issues

**Synthesis**  
Science Tech Soc

**FE 257**  

**BI 370**  
Ecology

**BI 211, BI 212, BI 213**

**Engineering Elective**

**NOTES:**

1. Starting Fall 2001, MTH 306 – Matrix and Power Series Methods (4), will replace MTH 253 – Infinite Series (4) (which is used for admission to the Professional Engineering Program) and MTH 341 – Linear Algebra (3) or equivalent.

2. ST 421 may be substituted for ST 314. However, this requires that ST 422 be taken as an upper division science elective.

3. OSU Baccalaureate Core requirement for a Biological Science course is met by BI 213.

4. OSU Baccalaureate Core Requirement for Synthesis – Science, Technology and Society is met by IE 380.

5. OSU Baccalaureate Core Requirement for Perspectives – Western Culture is met by PHL 205.

6. Credits to graduate = 192.