Ecological Economics Certificate Courses
Courses that have been used to satisfy the requirements of the Ecological Economics certificate program

You can find more information about the certificate and courses in the [Graduate College Catalogue](#).

The following courses must be taken to fulfill the core requirements of the certificate program...

**Core**
You must take the three core courses for the certificate.
- NR 341 - Ecological Economic Theory
- NR 351 Ecological Economics Methods
- NR 352 Ecological Economics Practice (or PSS 212 – Advanced Agroecology)

If you are unable to take one of these courses during your time at UVM, you can substitute one of the following with permission.
- PA 308 - Decision Making Models (Methods)

The following courses can be used to fulfill the competencies of the certificate. Things change over time so please check to make sure any courses you plan to take for your certificate are listed as Graduate Level Courses.

**Social Sciences**
- NR 306 - Envisioning a sustainable future
- FS 340 - Food Systems, Science & Policy
- PA 302 - Org Theory & Behavior
- PA 305 – Public and Nonprofit Budgeting
- PA 306 - Policy Systems
- PA 311 – Policy Analysis & Program Evaluation
- PA 326 – Community Economic Development
- CDAE 237 – Economics of Sustainability
- CDAE 251- Contemporary Policy Issues: Community Development
- CDAE 254 - Microeconomics for applied economics
- CDAE 321 - The Economics of Food Systems
- CDAE 326 Community Economic Development
- CDAE 354 - Advanced Microeconomics
- CDAE 395 – Advanced Special Topics
- BSAD 295 – Special Topics
- NR 254 – Advanced Natural Resource Policy
- NR 312 Power, Privilege, and Catalyzing Change
- NR 387 Education for Sustainability
- FS 321 Economics of Sustainable Food Systems
- FS 340 Food Systems, Science, and Policy
- CSYS 302 Modeling Complex Systems
Quantitative Methods
NR 242 – Advanced Geospatial Techniques
NR 341 Ecological Economic Theory
NR 343 – Fundamentals of Geographical Information Systems
NR 351 Ecological Economics Methods
CDAE 351/PA 303 Research & Evaluation Methods
CDAE 351/FS 395 Research Methods
CDAE 254 Microeconomics for Applied Economics
CDAE 351 - Research Methods
CDAE 250 - Applied Research Methods
CDAE 354 Advanced Microeconomics
CDAE 395 Advanced Econometrics
STAT 223 Applied Multivariate Analysis
STAT 231 Experimental Design
STAT 211 Statistical Methods I
PA 303 – Research and Evaluation Methods
PA 308 Decision Making Models

Management
NR 265 – Environment and Human Behavior
BSAD 222- Human Resource Management
PA 301- Foundations of Public Administration
PA 302 Organization Theory
PA 305 – Public and Nonprofit Budgeting
PA 307 – Administrative Ethics PA 319 – State Administration
PA 317-Systems Analysis and Strategic Management
PA 320 – Local Government Administration
PA 323 – Non-profit Administration
PA 395 Human Resources Management
CDAE 395 Project Management
CDAE 273 Project Development and Planning

Natural Sciences
NR 280 - Stream Ecology
NR 289 – Advanced Ecological Design
BIOL 254 Population Genetics
BIOL 264 – Community Ecology
BIOL 271 Evolution
BIOL 277 Sociobiology
WFB 224 - Conservation Biology
WFB 279 – Marine Ecology and conservation
WFB 352 Population Dynamics and Modeling
FOR 235 Forest Ecosystem Health
FOR 272 – Sustainable Mgmt of Forest Systems
STAT 211 - Statistical Methods I
STAT 225 – Applied Regression Analysis
PSS 212 - Advanced Agroecology
PSS 238 Ecological Landscape Design
ENVS 295 International Agroecology
ENVS 295 Sustainability Education
NR 289 Advanced Ecological Design
CDAE 395 Travel Study: Agroecology, Farmer, & Ecosystem