

# FACT Sheet - ESGP Core Courses

M.S. students are required to take one course from each focus area  
 PhD students are required to take two courses from each focus area.

Please note, students who plan to get their M.S. in Environmental Science, then continue on to a Ph.D., will have to, over the course of their tenure here, take a total of three courses from each focus area. The courses taken as part of the M.S. degree can't be double-counted towards the Ph.D. (Faculty Handbook, Appendix I)

## CORE COURSES IN BIOLOGICAL SCIENCES:

Course Number	Title	Quarter Offered	Credits
EEOB 655	Limnology	SP	5
EEOB 661	Conservation Biology	AU	5
EEOB 720	Community Ecology and Ecosystems	WI	5
*ENT 762	Environmental Toxicology & Chemistry	every other SP	3
MICRO 664	Microbial Ecology	every other AU	3
MICRO 665	Environmental Microbiology	every other AU	3
ENR 710	Methods in Ecosystem Science	every other AU	5
ENR 725	Wetland Ecology and Management	AU	5
ENR 733	Successional Dynamics of Forests	WI in odd years	5
ENR 756	Rehabilitation/Restoration of Ecosystems	AU	3
ENR 760	Ecosystem Modeling	every other WI	5
ENR 665	Biology of Soil Ecosystems	AU	5
ENR 761	Soil & Environmental Biochemistry	SP	4
ENR/EEOB 656	Ecosystems of the World	WI	5

## CORE COURSES IN PHYSICAL SCIENCES AND ENGINEERING:

Course Number	Title	Quarter Offered	Credits
AGSYMGT 550	Pollution Control and Waste Utilization	SP	3
ENVENG 610	Analysis of Natural & Polluted Water	AU	3
ENVENG/ENR 618	Ecological Engineering and Science	WI	4
ENVENG 720	Risk Assessment	WI	3
FABENG 650	Design of Waste Management Systems	SP	4
GEOG 520	Climatology	AU/WI	5
EARTHSCI 651	Hydrogeology	AU	5
EARTHSCI 686	Environmental Geophysics	SP	5
EARTHSCI 621	Principles of Geochemistry	AU	5
EARTHSCI 718	Aquatic Geochemistry	SP	5
ENR 675	Environmental Fate and Impact of Contaminants in Soil and Water	SP	4
ENR 671	Soil Physics	WI	5

FABENG 652	Ecosystems for Waste Treatment	SP	4
ENR 660	Soil Chem Process & Environmental Quality	WI	4
CHEM 641	Atmospheric Chemistry	WI	3

CORE COURSES IN SOCIAL SCIENCES AND POLICY:

Course Number	Title	Quarter Offered	Credits
AEDECON/ENR 531	Environmental and Natural Resources Economics	AU/SP	5
AEDECON 631	Benefit-Cost Analysis	AU	5
CRPLAN 722	Intro to Analysis and Use of Environmental Factors in City and Regional Planning	AU	3
CRPLAN 724	Intro to Planning for Sustainable Development	SP	4
CRPLAN 766	Environmental Planning Law	AU	4
CRPLAN 835	Land Use, Environmental Quality and Regional Analysis	SP	4
ENR 752	Environmental Science and Law	AU	4
ENR 651	Water Resources, Institutions and Policies	SP	5
ENR 750	Resolving Social Conflicts	AU	4
ENR 835	Ecosystem Management Policy	AU	5
ENR 736	Public Forest & Lands Policy	SP	4
PUBPOLM 801	Public Policy Formulation and Administration	AU	5
PUBPOLM 804	Concepts and Methods of Program Evaluation	WI	3
RURLSOC 766	Environmental Sociology	SP	5

This information is also available on the ESGP website: [esgp.osu.edu](http://esgp.osu.edu). Refer to the website for updates.

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