

## Graduate Certificate in ~~Tropical Biology and~~ Global Biodiversity Conservation and Leadership

The Graduate Certificate in ~~Tropical Biology and~~ Global Biodiversity Conservation and Leadership is intended for students who wish to pursue a career in conservation biology or ecology from either a research or practical standpoint. Cooperating institutions include the Missouri Botanical Garden, the St. Louis Zoo, the Center for International Studies at UMSL, and the Departments of Economics, History, and Political Science, and ~~Social Work~~ the Business School.

~~For more information about our graduation rates, the median debt of students who completed this graduate certificate program, and other important information, please visit our Gainful Employment Disclosure website: <http://umsl.edu/go/Brs>.~~

### Admission

~~Student enrolled in UMSL who intend to receive a Graduate Certificate in Tropical Biology and Conservation must complete an application form available from the Graduate School. Student not enrolled in a course of graduate studies at UMSL must apply simultaneously to the University's Graduate Admissions office.~~ Students Graduate students enrolled in UMSL who intend to receive a Graduate Certificate in Global Biodiversity Conservation and Leadership must complete the Application for Graduate Certificate (G10) once completing the required coursework. Students not enrolled in a course of graduate studies at UMSL who have a baccalaureate degree or are enrolled in graduate work elsewhere ~~may~~ must apply for admission to ~~the certificate program without regular admission to the graduate program~~ the UMSL Graduate School as graduate certificate-seeking students. ~~Due to limited space, admission will be on a competitive basis based on student motivation and academic qualifications.~~ The minimum admissions requirements include: (1) completion of a baccalaureate degree and the prerequisites of the certificate program; 2) at least a 3.0 GPA for undergraduate course work or a 3.2 GPA for 12 credit hours of graduate course work; ~~and (2) current enrollment in the graduate program in biology at UMSL having satisfied the prerequisites of the certificate; or completion of a baccalaureate degree and having satisfied the prerequisites of the certificate program.~~ The minimum prerequisites are undergraduate courses in ecology, evolution and genetics.

## Requirements

The certificate is awarded after completion of 18 credit hours of core courses and electives with a minimum of 12 credits at the 5000 or 6000 level. ~~Up to 3 credits may be taken at the 2000–3000 level upon permission of the Graduate Committee.~~ Electives must include a minimum of 3 credits outside biology with a maximum of 7 outside biology. A maximum of 3 credits may be taken at institutions other than UMSL. Students may simultaneously earn a graduate degree and count credits earned in their degree program toward the certificate when appropriate.

Required Core Courses		
BIOL 6250 /POL SCI 6452	Public Policy Of Conservation And Sustainable Development	3
<del>—or POL SCI 6452</del>	<del>Public Policy Of Conservation And Sustainable Development</del>	
BIOL 6299	Internship In Conservation Biology <sup>±</sup>	<del>±</del> 2-4
BIOL 6222	Advanced Tropical Ecology And Conservation	3
or BIOL 6270	Advanced Global Climate Change	
<b>Electives</b>		<b>10</b>
<b>Biology</b>		
BIOL 4182	Population Biology	
BIOL 4402	Ornithology	
BIOL 4403	Ornithology Laboratory	
BIOL 4422	Entomology	
BIOL 4423	Entomology Laboratory	
BIOL 4501	Flowering Plant Families: Phylogeny and Diversification	
<del>BIOL 5123</del>	<del>Advanced Tropical Resource Ecology Field</del>	

BIOL 5192	Community Ecology	
<del>BIOL 6102</del>	<del>Advanced Topics In Behavioral Ecology</del>	
<del>BIOL 6112</del>	<del>Advanced Evolution Of Animal Sociality</del>	
BIOL 6182	Advanced Population Biology	
BIOL 6192	Applications Of Geographic Information	
BIOL 6222	Advanced Tropical Ecology And Conservation	
BIOL 6270	Advanced Global Climate Change	
BIOL 6889	Graduate Seminar	
<b>Economics</b>		
<del>ECON 3300</del>	<del>International Economic Analysis</del>	
ECON 3500	The Economics of Government Spending and	
ECON 4160	Geospatial Analysis in the Social Sciences	
ECON 4170	Fundamentals of Cost-Benefit Analysis	
ECON 4550	Natural Resource Economics	
<b>History</b>		
HIST 3000	Selected Topics in History	
<del>HIST 6114</del>	<del>Course HIST 6114 Not Found</del>	
<del>HIST 6115</del>	<del>Historical Thinking in Research and Practice</del>	
<b>International Business</b>		
INTL BUS 4281	Entrepreneurship in the Global Environment	
<b>Political Science</b>		
POL SCI 3440	Public and NonProfit Budgeting	
POL SCI 3480	Environmental <del>Politics</del> Policy	
POL SCI 3590	Women and Leadership World-Wide: Breaking the Glass Ceiling	

<del>POL SCI 3595</del>	<del>Studies In Comparative Politics</del>	
POL SCI 3710	NonProfits, Civil Society and Volunteerism	
POL SCI 3830	International Political Economy	
POL SCI 3850	International Organizations and Global Problem-Solving	
<del>POL SCI 3890</del>	<del>Studies In International Relations</del>	
POL SCI 4850	International Law	
POL SCI 6448	Political Economy and Public Policy	
<del>POL SCI 6480</del>	<del>Proseminar in International Relations</del>	
<del>Social Work</del>		
<del>SOC WK 4950</del>	<del>Course SOC WK 4950 Not Found</del>	
<b>Total Hours</b>		<b>18-20</b>

~~± May be replaced with a biology elective for individuals with applied conservation or environmental agency experience upon consent of the Graduate Committee.~~

Sign-offs from other departments affected by this proposal

Department	Contact Person	Phone #	Objections
S006950	David Kimball	516-6050	No
S003400	Michael Allison	516-5306	No
S004900	Laura Westhoff	516-5692	No
S005230	Joseph Rottman	516-6286	No

Rationale The name change to the certificate reflects the current, more global emphasis of the graduate program in ecology, evolution, conservation, and systematics. Changes to the electives reflect changes in availability of courses. We added the requirement that the internship be completed while the student is enrolled at UMSL. Other wording changes in the program description are made for clarification.