

Course Listings for the Minor in Spatial Studies

Core courses highlighted as **Spatial Thinking**, **Space and Place**, and **Spatial Science**

Spring Quarter—2017

COURSE NUMBER/TITLE	UNITS	DATE, TIME, LOCATION	DESCRIPTION
ARTST 130 , Visual Arts as Culture	4	T R 2:00–3:15pm ARTS 0250	Gardner <i>Prerequisite: upper-division standing. May be repeated for credit to a maximum of 16 units, but only 8 units can be applied to the major.</i> <i>Note: The theme for this course changes regularly, but the content will frequently be of direct relevance to the Minor in Spatial Studies. Consult with instructor.</i>
C LIT 133 , Transpacific Literature	4	M W 11:00am–12:15pm PSYCH 1902	Huang <i>Prerequisite: Writing 2 or upper-division standing.</i>
EARTH 104A , Field Studies in Geological Methods	4	T R 9:30–10:45am PSB-S2712 F 11:00am–12:15pm PSB-S2712	Staff <i>Prerequisites: Geology 2 and 3 and consent of instructor.</i>
EARTH 104B , Field Methods	4	TBA	Hacker <i>Prerequisite: Earth 114 and 103. All with a C- or better.</i> <i>Enrollment Comments: Course materials fee required.</i>
EARTH 176 , Geological Application of GIS	4	T R 3:30–6:00pm SSMS 1301	Staff <i>Prerequisites: Upper division standing. Instructor approval required prior to enroll.</i>
EEMB 128 , Foundations of Ecosystem Restoration	4	T R 11:00am–12:15pm BUCHN1930 R 5:00–6:50pm BSIF 1239 T 3:00–4:50pm BSIF 1239 R 3:00–4:50pm BSIF 1239 W 5:00–6:50pm BSIF 1239	TBA <i>Prerequisites: Environmental Studies 100 or EEMB 120. Same course as Environmental Studies 128. Lecture, 3 hours; laboratory, 2 hours.</i>
EEMB 142C , Environmental Processes in Oceans and Lakes	4	M W F 1:00–1:50pm PSYCH1902 R 9:00–9:50am HSSB 2251 R 8:00–8:50am HSSB 1227 R 3:00–3:50pm LSB 1101	Cooper <i>Prerequisite: EEMB 142B.</i> <i>Not open for credit to students who have completed EEMB 145B. Lecture, 3 hours; discussion, 1 hour.</i>
ENGL 133SO , Studies in American Regional Literature	4	T R 5:00–6:15pm TD-W 1701	Waid Courses on American writing associated with particular regions such as the South, the West, New England.

		<p>W 8:00–8:50am SH 2617</p> <p>W 9:00–9:50am SH 2617</p> <p>W 10:00–10:50am SH 2617</p> <p>W 11:00–11:50am SH 2617</p> <p>R 3:00–3:50pm SH 1609</p> <p>R 4:00–4:50pm SH 1415</p>	
ENV S 128 Foundations of Ecosystem Restoration	4	<p>T R 11:00am–12:15pm BUCHN 1930</p> <p>R 5:00–6:50pm BSIF 1239</p> <p>T 3:00–4:50pm BSIF 1239</p> <p>R 3:00–4:50pm BSIF 1239</p> <p>W 5:00–6:50pm BSIF 1239</p>	TBA <i>Prerequisites: Environmental Studies 100 or EEMB 120. Same course as EEMB 128. Lecture, 3 hours; laboratory, 2 hours.</i>
ENV S 130C , Global Food Systems and Human Food Security	4	<p>M W 8:00–9:15am GIRV 1116</p>	Martin <i>Prerequisite: Anthropology 2 or Environmental Studies 1 or 3. Quarters usually offered: Spring. Same course as Anthropology 130C. Recommended preparation: Environmental Studies 130A or 130B or Anthropology 130A or 130B.</i>
ENV S 134 , Coastal Processes and Management	4	<p>T R 3:00–4:45pm GIRV 2128</p>	Keller <i>Prerequisites: Environmental Studies 2; Mathematics 3A or 34A or Environmental Studies 25; and, Geology 1 or 2 or 4 or 20 or Geography 3A or 3B. Recommended preparation: Introductory Biology.</i>
ENV S 135B , Advanced Environmental Planning	4	<p>T 6:30–9:20pm HSSB 1173</p>	Stephens <i>Prerequisite: Environmental Studies 135A.</i>
ENV S 167 , Biogeography: The Study of Plant and Animal Distributions	4	<p>M W 9:30–10:45am ELLSN 2620</p> <p>R 2:00–2:50pm ELLSN 2620</p>	TBA <i>Prerequisites: Geography 3A or 3B or Environmental Studies 2 or EEMB 2 or Geology 2. Same course as Geography 167.</i>
ENV S 183 , Films of the Natural and Human Environment	4	<p>M 5:00–7:50pm GIRV 1116</p> <p>W 5:00–5:50pm GIRV 1116</p>	Martin <i>Prerequisite: upper-division standing. Recommended preparation: Environmental Studies 1 or 2 or 3; and Film Studies 46.</i>

GEOG W12 , Maps and Spatial Reasoning	4	ONLINE M 9:00–11:50am ELLISN 2610 M 5:00–7:50pm ELLISN 2610 R 9:00–11:50am ELLISN 2610	TBA <i>Offered online.</i> Note: Geography 12 is the required common course for the Minor in Spatial Studies.
GEOG 109 , Economic Geography	4	T R 11:00am–12:15pm PHELP 2516 W 1:00–1:50pm ELLISN 2620 R 9:00–9:50am ELLISN 2620	TBA Prerequisite: upper-division standing only Recommended Preparation: Geography 5.
GEOG 115C , Intermediate Remote Sensing Techniques	5	M W 11:00am–12:15pm ELLSN 3621 W 5:00–7:50pm ELLSN 2609	Chu Prerequisite: Geography 115B with a minimum grade of C. <i>Lecture, 3 hours; laboratory, 4 hours.</i>
GEOG 145 , Society and Hazards	4	T R 12:30–1:45pm ELLSN 2620	Staff Prerequisite: Upper-division standing or consent of instructor. <i>Open to non-majors.</i>
GEOG 150 , Geography of the United States	4	T 5:00–7:50pm NH 1006	Montello Prerequisite: Not open to freshmen Notes: <i>Lecture, 3 hours.</i>
GEOG 176C , GIS Design and Applications	5	M W 2:00–3:15pm HSSB 1173 T 5:00–6:50pm ELLSN 2610 F 12:00–1:50pm ELLSN 2610 R 2:00–3:50pm ELLSN 2610	Janowicz Prerequisite: Geography 176B with a minimum grade of C.
GEOG 183 , Cartographic Design and Geovisualization	4	M W 3:30–4:45pm ELLSN 3621 T 3:00–4:50pm ELLSN 2610	Clarke Prerequisite: Geography 12 or 176A.
GEOG 185B , Environmental Issues and Location Decision Making	4	M W 2:00–3:15pm ARTS 1356 W 9:00–10:50am ELLSN 3620 T 5:00–6:50pm ELLSN 3620	Church Prerequisites: Geography 3A or 3B or 5 or Environmental Studies 135A. <i>Taught spring quarter every year.</i>
MATH 102B , Modern Euclidean and Non-Euclidean Geometry	4	M W F 11:00–11:50am ED 1215	Ograin Prerequisites: Mathematics 3B (for 102A); Mathematics 102A (for 102B).

MATH 108A , Introduction to Linear Algebra	4	T R 3:30–4:45pm PHELP 1160	Jacob <i>Prerequisites: Mathematics 5A and 8.</i>
MATH 108B , Introduction to Linear Algebra	4	M W R F 1:00–2:50pm 494 164B	Bueno Cachadi <i>Prerequisite: Mathematics 108A.</i>
MATH 145 , Introduction to Topology	4	M W F 2:00–2:50pm ARTS 1349	Scharlemann <i>Prerequisite: Mathematics 8.</i> Metric spaces, continuity, compactness, classification of surfaces, Euler characteristics, and fundamental groups. Additional topics at the discretion of the instructor.
MATH 147A , Introductory Differential Geometry	4	T R 3:30–4:45pm ARTS 1349	Wei <i>Prerequisites: Mathematics 5B; and, Mathematics 108A or 117 (for Mathematics 147A): Mathematics 147A (for Mathematics 147B).</i>
PHYS 106 , Nonlinear Phenomena	4	M W 11:00am–12:15pm PHELP 2536 M 6:00–6:50pm GIRV 1106 F 12:00–12:50pm GIRV 1106	Guruswamy Prerequisites: Physics 105A; or ME 163; or upper-division standing in ECE. <i>Same course as ECE 183 and ME 169. Not open for credit to students who have completed ME 163C.</i>
PHYS 131 , Gravitation and Relativity	4	M W F 9:00–9:50am PHELP 1260 F 12:00–12:50pm PHELP 2536 F 1:00–1:50pm PHELP 2536	Blaes <i>Prerequisites: Physics 105A-B with a minimum grade of C-. Physics 105B may be taken concurrently only with the consent of the instructor.</i>
PHYS 141 , Optics	4	T R 11:00am–12:15pm NH 1109	Jayichania <i>Prerequisite: Physics 5 or 25.</i>
PSTAT 131 , Data Mining	4	T R 5:00–6:15pm PSYCH 1924 W 8:00–8:50am SSMS 1303 W 1:00–1:50pm SSMS 1303 W 5:00–5:50pm SSMS 1303 W 6:00–6:50pm SSMS 1304	Staff <i>Prerequisites: PSTAT 120A-B, 126, 130.</i>
PSTAT 160A , Stochastic Processes	4-4	T R 9:30–10:45am NH 1006 F 11:00–11:50am ARTS 1356 F 12:00–12:50pm HSSB 1214 W 12:00–1:50pm	Sarantsev <i>Prerequisites: Mathematics 5A and 8; PSTAT 120A with a minimum grade of C.</i>

		HSSB 1214	
PSTAT 160B , Applied Stochastic Processes	4	T R 3:30–4:45pm PSYCH 1902 T 7:00–7:50pm HSSB 2251 R 1:00–1:50pm HSSB 1223 W 7:00–7:50pm HSSB 1224	Sarantsev <i>Prerequisites: Mathematics 5A and 8; PSTAT 120A with a minimum grade of C.</i>
PSTAT 174 , Time Series	4	W F 12:30–1:45pm PHELP 1260 R 11:00–11:50am SSMS 1005 R 2:00–2:50pm SSMS 1301 R 12:00–12:50pm PHELP 1513 F 8:00–7:50am SSMS 1303	Staff <i>Prerequisites: PSTAT 120A-B.</i>
PSY 110B , Perception: Audition	4	T R 8:00–9:15am CHEM 1171	Hadja <i>Prerequisite: Psychology 1, 5, and 7; open to psychology, biopsychology and interdisciplinary studies majors only.</i> <i>Enrollment Comments: May not be taken concurrently with Psychology 107.</i>
PSY 128 , Human Thinking and Problem Solving	4	T R 2:00–3:15pm GIRV 1004	Herrera Ortiz <i>Prerequisite: Psychology 1, 5, and 7; open to psychology, biopsychology, and interdisciplinary studies majors only.</i> <i>Recommended preparation: Psychology 108.</i> <i>Note: Students in Spatial Studies Minor require consent of instructor.</i>
PSY 156 , Multimedia Learning	4	T R 12:30–1:45pm WEBB 1100	Mayer <i>Prerequisite: Psychology 1, 5, and 7; open to psychology, biopsychology, and interdisciplinary majors only.</i>
RG ST 116C , Archaeology and the Study of Religion	4	M W 2:00–3:15pm SH 1431	Thomas <i>Prerequisite: Any lower or upper-division course in Religious Studies</i>