

**2011-13 Cal Poly Catalog**  
**Natural Resources Management &**  
**Environmental Sciences Department**  
**BS FORESTRY AND NATURAL RESOURCES**

☐ 60 units upper division      ☐ GWR  
 ☐ 2.0 GPA                              ☐ USCP

\* = Required in Support; also satisfies GE

Note: No major, support or concentration courses  
 may be taken as credit/no credit.

**MAJOR COURSES**

NR 140 Careers in Forestry and Environ. Mgmt.	1
NR 141 Introduction to Forest Ecosystem Mgmt.	3
NR 208 Dendrology .....	4
NR 215 Land and Resource Measurements.....	2
NR 260 Forest Practices and Environ. Protection	4
NR 306 Natural Resource Ecology & Habitat Mgt	4
NR 307 Fire Ecology.....	3
NR 315 Measuremts & Sampling in Forested Env.	4
NR/LA 318 Applications in GIS .....	3
NR 320 Watershed Management.....	4
NR 326 Natural Resources Econ. & Valuation .....	4
NR 335 Conflict Mgmt. in Natural Resources.....	4
NR 365 Silviculture and Vegetation Management	4
NR 402 Forest Health.....	4
NR 412 Forest and Natural Resources Senior Assessment Project <i>or</i> NR 461 Sr. Project I <i>or</i> ERSC/NR 476 <i>or</i> ERSC/NR 477 <i>or</i> ERSC/NR 478 <i>or</i> ERSC/NR 479 (12/1/15).....	3
<sup>1</sup> NR 414 Sustainable Forest Management.....	4
NR 416 Environmental Impact Analysis & Mgmt.	4
NR 435 Natural Resources Policy Analysis .....	4
NR 465 Ecosystem Management.....	4
Concentration courses .....	32
	<b>99</b>

**SUPPORT**

AGB 212 Agricultural Economics .....	4
<sup>2</sup> ASCI 329 Principles of Range Mgmt. <i>or</i> ASCI 370 <i>or</i> BIO 427 Wildlife Mgmt. <i>or</i> PHYS 122 (11/17/15)....	3-4
BOT 121 General Botany (B2&B4)* .....	4
BRAE/NR 247 Forest Surveying <i>or</i> BRAE 239 Engineering Surveying .....	2-4
BRAE 345 Aerial Photogram. & Remote Sensing	3
CHEM 111 Survey of Chemistry (B3)* .....	5
<sup>3</sup> MATH 161 Calculus for the Life Sciences I <i>or</i> MATH 221 Calculus for Bus & Econ (B1)* .....	4
SS 121 Introductory Soil Science.....	4
STAT 217 <i>or</i> STAT 218 Statistics (B1)* .....	4
<sup>4</sup> Approved science course BOT 313, CHEM 312, <i>or</i> PHYS 121 .....	4-5
	<b>37</b>
	<b>38</b>

**GENERAL EDUCATION (GE)**

72 units required, 16 of which are specified in Support.

→See page 39 for complete GE course listing.

→Minimum of 12 units required at the 300 level.

**Area A Communication (12 units)**

A1 Expository Writing .....	4
A2 Oral Communication .....	4
A3 Reasoning, Argumentation, and Writing.....	4

**Area B Science and Mathematics (no additional units req'd)**

B1 Mathematics/Statistics * 8 units in Support.....	0
B2 Life Science * 4 units in Support.....	0
B3 Physical Science * 4 units in Support.....	0
B4 One lab taken with either a B2 or B3 course	

**Area C Arts and Humanities (20 units)**

C1 Literature .....	4
C2 Philosophy .....	4
C3 Fine/Performing Arts .....	4
C4 Upper-division elective (no NR course, except ES/NR 360) (3/2/15) .....	4
Area C elective (Choose one course from C1-C4)	4

**Area D/E Society and the Individual (20 units)**

D1 The American Experience (40404) .....	4
D2 Political Economy .....	4
D3 Comparative Social Institutions .....	4
D4 Self Development (CSU Area E) .....	4
D5 Upper-division elective (no NR course, except ES/NR 308) (3/2/15) .....	4

**Area F Technology Elective (upper division) (4 units)**

**56**

**FREE ELECTIVES .....**

**0**

*Corrected (7/19/13)*

**192-193**

**CONCENTRATIONS (Select one)**

**Environmental Planning and Assessment  
Concentration**

CRP 212 Introduction to Urban Planning .....	4
NR 311 Environmental Measurements and Interpretation.....	4
NR 339 Internship.....	6
NR/CRP 404 Environmental Law <i>or</i> NR/CRP 408 Water Resource Law and Policy.....	3
NR 425 Applied Resource Analysis and Assessmt	4
<sup>5</sup> Approved electives.....	11
<i>Select 11 units from the following:</i> CRP 334, 420; ENVE 434; GEOG 301, 414, 415; NR 400, 418, 420; NR/ES 406 (6/30/13) SS 321, 440, 433	
	<b>32</b>

<sup>1</sup> Students following Track 1 of Watershed Management and Hydrology  
Concentration must take CHEM 312 as a substitute.

<sup>2</sup> Students following Track 1 of Watershed Management and Hydrology  
Concentration, ~~must take~~ PHYS 122 ~~as a substitute~~ is recommended.  
(11/17/15)

<sup>3</sup> Students following Track 1 of Watershed Management and Hydrology  
Concentration must take MATH 161.

<sup>4</sup> Students following Track 1 of Watershed Management and Hydrology  
Concentration must take PHYS 121.

<sup>5</sup> Consultation with advisor is recommended prior to selecting approved  
electives; bear in mind your selections may impact pursuit of post-  
baccalaureate studies and/or goals.

**Forest and Environmental Practices Concentration**

NR 339 Internship .....	6
NR 475 Sustainable Forest and Env. Practices.....	15
<sup>1</sup> Approved electives. ....	11
<i>Select 11 units from the following:</i>	
AG 360; AGB 315;	
BIO 435; BOT 238, 324;	
BRAE 133, 151, 340;	
CRP 212, 336, 420;	
EHS 382, 421,	
JOUR 203, 205;	
MCRO 436;	
NR 204, NR/ES 308, NR 312, 340, 350,	
NR/ES 360, NR 400, NR/CRP 404, 408,	
NR 418, 420, NR/BIO/SS 421, NR 434, 450, 455;	
SS 221, 321, 433, 440;	
PPSC 321, 327;	
any upper division BIO, BOT, ZOO, MCRO,	
CHEM, COMS, or JOUR course;	
any DMHS course	
	32

**Urban Forestry Concentration**

CRP 212 Introduction to Urban Planning.....	4
EHS 421 Arboriculture.....	4
NR 311 Environmental Interpretation .....	4
NR 339 Internship .....	6
NR 350 Urban Forestry .....	3
NR 450 Community Forestry .....	3
<sup>1</sup> Approved electives. ....	8
<i>Select 8-10 units from the following:</i>	
EHS 230, 337, 381;	
HCS 327;	
NR 204, 340, 400, 418, 455; NR/CRP 404;	
<b>NR/ES 406 (6/30/13)</b>	
SS 433	
	32

**Watershed Management and Hydrology Concentration**

NR 420 Advanced Watershed Hydrology .....	4
SS 321 Soil Morphology .....	4
<sup>2</sup> SS 440 Forest and Range Soils <i>or</i> ERSC 323	
Geomorphology .....	4
<sup>1,2,3</sup> Approved electives. ( <i>select one track</i> ) .....	20
<sup>3-4</sup> <b>Track 1:</b>	
(a) Select 4 units from: BRAE 435, NR/BIO/SS 421, or NR/HNRS 475	
(b) Select 8 units from: ENVE 434, ERSC 323, GEOL 201 and GEOL 241, NR/HNRS 475 (4 units max), PHYS 107; or SS 440	
(c) MATH 162 Calculus for Life Sciences II (4)	
(d) Select 4 units from: STAT 313 (4) <i>or</i> NR/HNRS 475 (max 1 unit) and NR 418 (3)	
<b>Track 2 – Select 20 units from:</b>	
BRAE 435, CHEM 312, ENVE 434, GEOL 201, 241, NR 339, NR/BIO/SS 421, NR/HNRS 475 (9 units max), PHYS 107, 121, or STAT 313	
	32

**Wildland Fire and Fuels Management Concentration**

NR 204 Wildland Fire Control.....	3
NR 339 Internship .....	6
NR 340 Wildland Fire Management .....	3
NR 455 Wildland-Urban Interface Fire Protection	3
<sup>1</sup> Approved electives. ....	17
<i>Select 17 units from the following:</i>	
BOT 326, 433;	
CRP 212, 336, 342, 458;	
CRP/NR 404, 408;	
EHS 230, 381, 421;	
ERSC 415;	
KINE 280;	
LA 221;	
NR 203, NR/ES 308, <b>406</b> ; NR 312, 350, 418, 420, 425, 450, NR/HNRS 475; <b>(6/30/13)</b>	
PHYS 107;	
SS 321, 440;	
UNIV 339;	
any upper division COMS course;	
any DMHS course;	
any CSU-transferable course recognized by Cal Regional Fire Academy;	
any CSU-transferable fire technology course;	
any CSU-transferable emergency medical technician course	
	32

**Individualized Course of Study**

NR 339 Internship in Forest and Natural Resources	6
4 units of NR coursework.....	4
Select any course used in minor(s).....	22
	32

<sup>1</sup> Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.

<sup>2</sup> **Students following Track 1 of Watershed Management and Hydrology Concentration must take MATH 161.**

<sup>2,3</sup> If a course is taken to meet a requirement, it cannot be double-counted as an approved elective for the concentration.

<sup>3-4</sup> This track is designed to prepare students to become eligible for hydrology positions and meets the criteria for employment eligibility in the federal government (GS 1315).

*Footnote corrections effective Summer 2011*