

Final Draft Agenda
Subcommittee on Curriculum
Thursday, 1 September, 2011
3:30 PM Room 213 University Center

Members: Holden Hansen, Chair (ARTS to 2013), Victor Bahhouth (S&BS to 2012), Kirill Bumin (S&BS to 2013), Monika Brown (LETT to 2013), Deborah Groves (NS&M to 2012), Patrick Hannigan (EDUC to 2012), Jaime Martinez (LETT to 2012), Elizabeth Normandy (VC of AA Designee), Sharon Kissick (Registrar), **Richard Roland** Stout (NS&M to 2013), Tommy Thompson (EDUC to 2013), David Young (ARTS to 2012, SGA Senator, SGA Secretary

1. Call to order
2. Adoption of Agenda
3. Approval of Minutes of 7 April, 2011

4. Proposals from the Department of Sociology and Criminal Justice (See pp. 3-4 for Proposal Detail)

4.1 Program Proposal: 1. Change CRJ 4800 (Internship in Criminal Justice) from a requirement of the major to a criminal justice elective. 2. Delete CRJ 4810 (Professional Development).

4.2 Course Proposal: Change SOC 4850 (Internship in Sociology) from a six credit hour course to a three credit hour course.

5. Proposals from the Department of Biology (See pp. 5-9 11 for Proposal Detail)

5.1-5.3 Course Proposals: Create Bio **2450**, **3450**, and **4200**.

5.4 Program Proposal: Create a "Sustainable Agriculture Track" within the current B.S. in Environmental Science Degree. To accomplish that, we propose 1. to replace the current BIO/ENV Electives with a Sustainable Agriculture Track and 2. to modify the current free Electives into Guided Electives and free Electives. Guided electives are highly recommended but not required.

6. Old Business:

6.1 Discussion of Section 6.10.B and Article VI of the Faculty Handbook.

7. New Business:

7.1 Discussion: Ad Hoc Committee Report on Curriculum Policies

7.2 Discussion: Request from Registrar to add information to course form (see alternatives highlighted in yellow below):

8. Course description:

Prefix & Number _____ New course title: _____

46

47 Credit Hrs _____ Prerequisites? _____

48 Required for? * Yes No [*Check yes if this proposal alters the requirements for a Program, and
49 submit an accompanying Program Proposal Form.]50 Either add alternative #1 or #2 here or add it as a number "9" to say "Does this course replace or is it
51 equivalent to any other course(s)? If so, please list the equivalent course(s) or attach a crosswalk table.

52 Alternative #1: This course is equivalent to: _____

53 Alternative #2: This course replaces: _____

54 New course catalog description:

55

56 Using only 27 characters, including spaces, type the new course title below; use abbreviations

57

58 3. Election of 2011-12 Chair

59 4. Election of 2011-12 Secretary

60

61 9. Announcements

62

63 10. Adjournment

64

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66

AGENDA ATTACHMENT #1: PROPOSAL FORMS

67

4. Proposals from the Department of Sociology and Criminal Justice**4.1 Program Proposal:**

70 1. Change CRJ 4800 (Internship in Criminal Justice) from a requirement of the major to a criminal justice
71 elective.

72

73 2. Delete CRJ 4810 (Professional Development).

74

Rationale:

76 Many students find it difficult to complete an internship due to their personal obligations and

77 circumstances (e. g., distance education/online student, work schedule, family responsibilities, etc.).

78 Making the internship optional will obviate the need for course waivers and substitutions, and it will still

79 provide a field internship opportunity for students who are able to devote the time required to

80 complete a field experience.

81

82 The professional development class is redundant to much of what can/should occur in our internship

83 class. As well, deleting this class will open up space for a writing class that is currently being developed.

84

85 Dept vote: 15 for; 0 against; 0 abstain

86

87 Affect others: no

88 Departments affected and how:

89 Affected Chair: n/a

90 Additional Resources: no

91 Additional Resources required: none

92

93 File attachment: Catalog Changes

94

Catalog Changes Required:

96

Page 268

98

99 Remove CRJ 4800 and CRJ 4810 from the list of courses in the catalogue section entitled: Requirements
100 for a Bachelor of Arts Degree in Criminal Justice, under the section entitled Criminal Justice Core
101 (required). Also, change the number in the "semester hours" column for Criminal Justice Core
102 (required) from 24 to 18.

103

104 Under the section entitled: Requirements for a Bachelor of Arts Degree in Criminal Justice, within the
105 section entitled: Criminal Justice Electives: change the word five to the word six, and also change the
106 number in the corresponding "semester hour" column from 15 to 18.

107

Page 279:

108

110 Delete reference to CRJ 4810 (Professional Development).

111

112 **4.2 Course Proposal:**

113 1. Change SOC 4850 (Internship in Sociology) from a six credit hour course to a three credit hour course.

114

115 Rationale:

116 The department believes that the internship in sociology can adequately be handled in a three credit
117 hour class. As well, this change will make room for a writing course that is currently in development for
118 the sociology major.

119

120 Dept vote: 15 for; 0 against; 0 abstain

121

122 Affect others: no

123 Departments affected and how:

124 Affected Chair: n/a

125 Additional Resources: no

126 Additional Resources required:

127

128 File attachment: SOC 4850 catalog change

129

130 SOC 4850 catalog change:

131 Page 267:

132 In the section entitled: Requirements for a Bachelor of Arts Degree in Sociology, within the section
133 entitled: Sociology Electives, change "select 9-12 hours" to 12 hours.

134 Page 273:

135 Under the course description for SOC 4850 (Internship in Sociology), change "Credit 6 semester hours"
136 to "Credit 3 semester hours." Also change the number of hours for the internship from 200 to 100
137 hours.

138

139

139

140 **5. Proposals from the Department of Biology**

141

142 **5.1 Course Proposal:** We are proposing a new course (ENV 2450, "Principles of Sustainable Agriculture",
 143 4 credit hours), to be part of the new Sustainable Agriculture Track within the B.S. in Environmental
 144 Science Degree.

145

146 **Rationale:** We are proposing to create a "Sustainable Agriculture Track" within the existing B.S. in
 147 Environmental Science Degree. To support the new track, we are proposing to develop three new
 148 courses in Sustainable Agriculture. The title of the proposed course is: "ENV 2450 Principles of
 149 Sustainable Agriculture, 4 credit hours." This course will be required of all majors in the track and will
 150 give the initial introduction in Sustainable Agriculture.

151

152 Dept vote: 15 for; 0 against; 0 abstain

153 Affect others: no

154 Departments affected and how: none

155 Affected Chair: n/a

156 Cross listing: no

157 Articulation: no

158 Additional Resources: no

159 Additional Resources required: none

160

161 **COURSE DESCRIPTION:**

162 BIO ENV 2450 Principles of Sustainable Agriculture

163 Hours: 4

164 Prerequisites: None

165 Required: "Sustainable Agriculture Track" within the existing B.S. in Environmental Science Degree. (If
 166 yes, need Program Proposal Form)

167 New course description: This course will explore the characteristics of a sustainable food system. It will
 168 discuss the challenges of balancing food production with preservation of ecological resources and
 169 promoting integrated livable communities. Case studies will be used to analyze integrated farming
 170 systems that illustrate multiple concepts of sustainable agriculture. The associated lab will include visits
 171 to local farms, food distribution centers and films. Does not fulfill a BIO elective.

172

173 27 Letter Title: Principle of Sustainable Ag

174 Code: LEC

175

176 **5.2 Course Proposal:** We are proposing a new course (ENV 3450, "Plant Cropping and Weed
 177 Management", 4 credit hours), to be part of the new Sustainable Agriculture Track within the B.S. in
 178 Environmental Science Degree.

179

180 **Rationale:** We are proposing to create a "Sustainable Agriculture Track" within the existing B.S. in
 181 Environmental Science Degree. To support the new track, we are proposing to develop three new
 182 courses in Sustainable Agriculture. The title of the proposed course is: "ENV 3450 Plant Cropping and
 183 Weed Management, 3 credit hours." This course will be required of all majors in the track and will
 184 provide knowledge in Plant Cropping as well as in Weed Management.

185

186 Dept vote: 15 for; 0 against; 0 abstain

187 Affect others: no

188 Departments affected and how: none

189 Affected Chair: n/a

190 Cross listing: no

191 Articulation: no

192 Additional Resources: no

193 Additional Resources required: none

194

195 COURSE DESCRIPTION:

196 BIO ENV 3450 Plant Cropping and Weed Management

197 Hours: 3

198 Prerequisites: None

199 Required for: "Sustainable Agriculture Track" within the existing B.S. in Environmental Science Degree.

200 (If yes, need Program Proposal Form)

201 New course description: This course will explore the differences between crops and cropping, cropping
202 seasons, plant growth and development, and principles of sustainable weed management for croplands.

203 It will define and discuss the different agronomic/field crops and the concepts of multiple cropping and
204 intercropping as a sustainable method to maintain nutrient levels in the soil while increasing crop yield.

205 Concurrently, it will emphasize sustainable cropping systems that prevent weed problems, rather than
206 using quick-fix approaches. Alternatives to conventional tillage systems, including allelopathy,

207 intercropping, crop rotations, and a weed-free cropping design. Does not fulfill a BIO elective.

208

209 27 Letter title: Plant Cropping & Weed Manag

210 Course Code: LEC

211

212 **5.3 Course Proposal:** We are proposing a new course (ENV 4200, "Pest Management", 4 credit hours),
213 to be part of the new Sustainable Agriculture Track within the B.S. in Environmental Science Degree.

214

215 **Rationale:** We are proposing to create a "Sustainable Agriculture Track" within the existing B.S. in
216 Environmental Science Degree. To support the new track, we are proposing to develop three new

217 courses in Sustainable Agriculture. The title of the proposed course is: "ENV 4~~XXX~~ 4200 Pest

218 Management, 4 credit hours." This course will be required of all majors in the track and will give insights

219 into the chemical-free management diseases and insects in Sustainable Agriculture.

220

221 Dept vote: 15 for; 0 against; 0 abstain

222 Affect others: no

223 Departments affected and how: none

224 Affected Chair: n/a

225 Cross listing: no

226 Articulation: no

227 Additional Resources: no

228 Additional Resources required: none

229

230 COURSE DESCRIPTION:

231 BIO ENV 4200 Pest Management

232 Hours: 4

233 Prerequisites: BIO 1000 Principles of Biology

234 Required for: "Sustainable Agriculture Track" within the existing B.S. in Environmental Science Degree.
 235 (If yes, need Program Proposal Form)

236 New course description: A practical course in the biology, recognition, and management of common
 237 insect, fungal and other pests of crops and livestock. Emphasis will be on how to reduce disease
 238 pressure through knowledge of pest life cycles and preventative measures. Management strategies will
 239 focus on sustainable practices, integrated pest management and biocontrol.

240

241 27 Letter title: Pest Management

242 Course Code: LEC

243

244 **5.4 Program Proposal:** We are proposing to create a "Sustainable Agriculture Track" within the current
 245 B.S. in Environmental Science Degree. To accomplish that, we propose 1. to replace the current BIO/ENV
 246 Electives with a Sustainable Agriculture Track and 2. to modify the current free Electives into Guided
 247 Electives and free Electives. Guided electives are highly recommended but not required.

248

249 1. The current 9-12 hours BIO/ENV Electives - 3 of: ENV 2400 Field Microbiology, BIO 4220 Evolution,
 250 BIO 2500 Ornithology, BIO 3400 Plant Systematics, BIO 4320 Conservation Biology, ENV 4100
 251 Environmental Laws and Regulations, BIO 3010 Entomology, BIO 4100 Marine Biology would be replaced
 252 with 11 hours of Sustainable Agriculture Track: ENV 2~~XXX~~ 2450 Principles of Sustainable Agriculture, ENV
 253 3~~XXX~~ 3450 Plant Cropping and Weed Management, and ENV 4~~XXX~~ 4200 Pest Management (3 new
 254 course proposals included).

255

256 2. The current 15-18 hours of free Electives would be partitioned into 7 free Electives and 9 Guided
 257 Electives. The highly recommended Guided Electives (ENTR 2000, ENTR 2100, ENTR 4000) will give the
 258 student in the Entrepreneurship Certificate along with the B.S. in Environmental Science with a
 259 sustainable track. ~~B.S. ENVB Program Sustainable Agriculture Track and the Entrepreneurship~~
 260 ~~Certificate.~~

261

262 **Rationale:** The University Mission statement includes the idea that the University will teach responsible
 263 stewardship of the world, as well as the idea that we will enhance the economic life of the region. This
 264 new track would address those mission points. Because this region is still largely agricultural, this new
 265 track seems in fact overdue. We would be making an honest effort to increase the fit between what the
 266 University offers and what the local communities need.

267

268 This program will create a way for UNCP to reach out to our local agricultural communities. The closest
 269 school that offers a degree in agriculture is NC State. Students who are reluctant to leave the area will
 270 appreciate an option closer to home, and will be in a position to take the latest best practices back to
 271 their home farms. The rapidly growing local and sustainable foods movement is potentially an avenue
 272 for creating new jobs and opportunities in our region, and we have the opportunity to facilitate that
 273 process.

274

275 Department Vote: 15-0-0

276 Affect Departments: No

277 Additional Resources: No

278 File Attachment: SustAgri ENVB-BS in Environmental Science Sustainable Agriculture Track

279

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280

281

UNCP DEGREE PLAN FOR BIOLOGY (2010-2011)

282

ENVB – B.S. in Environmental Science

283

Sustainable Agriculture Track

284 Name: _____ Student ID: _____

_____ FRS 1000 () Unless transferring in 15 or more hrs.	1
_____ ENG 1050 () 1060 ()	6
_____ FINE ARTS-1 of: ART 2020, 2050, 2080, 2090, THE 2500 or- MUS 1020, 1040, 2940, 2980 ()	3
_____ LITERATURE -1 of: ENG 2010, 2020, 2030, 2050, 2060, 2080, 2090, 2100, 2190, 2230, 2240, 2410, 2470, 2480, 2200 (AIS) ()	3
_____ HISTORY-1 of: HST 1010, 1020, 1140, 1150, 1100(AIS), 1110(AIS) ()	3
_____ PHIL. & RELIGION-1 of: PHI 1000, 1010, 2040 -or- REL 1080, 1300 ()	3
_____ SOCIAL SCIENCES _____() _____() _____() (3 of: each from a different discipline) ECN 1000, 2020, 2030, 2410 PSY 1010 GGY 1010, 1020, 2000, 2060 (ECN) SOC 1020, 2090, 1050 (AIS) PSPA 1000, 1010 HON 1000, 2750	9
_____ General Education Elective _____ () Any <u>additional</u> course from the Arts & Humanities Division or the Social Science Division listed on pages 29-31 of the University catalog. If foreign language chosen- 6 hours is required.	3
_____ PHYSICAL EDUCATION (2 of) _____() _____() PED 1010, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1410, 1450, 1460, 1770, 1790, 1900, 1910, 1950, 1800 (MSC), 1810(THE), 1820(THE)	2
_____ MATH 1070 or 1090 () 2100 ()	6
_____ CHEMISTRY 1300 () 1100 () 1310 () 1110 () 2500 ()	12
_____ EARTH SCIENCE GLY 1150 () GGY 2500() & one of the following: GLY 2260 () 2460 () 2620 ()	9
_____ BIOLOGY 1000 () 3040 () 3420 () 4310 ()	14

_____ ENVIRONMENTAL SCIENCE 2200 () 2300 () 3100 () 3200 () 4900 ()	19
_____ SUSTAINABLE AGRICULTURE TRACK K Principles of Sustainable Agriculture 2xxx() Plant Cropping and Weed Management 3xxx () Pest Management 4xxx ()	11
_____ GUIDED ELECTIVES* ENTR 2000 () ENTR 2100 () ENTR 4000 ()	16
_____ FREE ELECTIVES _____() _____() _____() _____()	
TOTAL	120

285 * ENTR 2000 is highly recommended for students in the Sustainable Agriculture Tract. If you complete the series
 286 ENTR 2000, 2100 and 4000 and the Sustainable Agriculture Tract you will receive an Entrepreneurship Certificate
 287 along with your degree.

288 ** Must average 2.0 QPA overall in required & elective courses in Biology and Environmental Science.

289

289

290

Principles of Sustainable Agriculture

291

ENV 2450 (4 credits)

292 Course Description

293 This course will explore the characteristics of a sustainable food system. It will discuss the challenges of
 294 balancing food production with preservation of ecological resources and promoting integrated livable
 295 communities. Case studies will be used to analyze integrated farming systems that illustrate multiple
 296 concepts of sustainable agriculture. The associated lab will include visits to local farms, food distribution
 297 centers and films. . Does not fulfill a BIO elective.

298 Course Objectives

- 299 • Define sustainable agriculture and describe the value of ecologically based farming practices.
- 300 • Analyze how agricultural practices impact the environment and society.
- 301 • Describe the general principles of agricultural systems that have limited impact on ecosystems
 302 and sustain local communities.
- 303 • Critically evaluate various agricultural practices for their sustainability, balancing environmental
 304 impacts with their effects on producers, society and economics.

305 Course Topics

- 306 • Ecological and social impacts of modern agriculture.
- 307 • What is sustainable agriculture? Why is it needed?
- 308 • Energy flow in agricultural systems.
- 309 • Nutrient cycling in agricultural systems.
- 310 • Water management in agricultural systems.
- 311 • The living soil
 - 312 ○ Physical properties and degradation
 - 313 ○ Diversity and community structure
 - 314 ○ Sustainable soil management
- 315 • Cropping systems design
- 316 • Integrating animals into agricultural systems
- 317 • Integrated pest management and biocontrol
- 318 • Organic farming principles and certification
- 319 • Community food systems
- 320 • Value added production, accessing consumer demand and marketing for sustainability
- 321 • Agroforestry
- 322 • What can we learn from traditional Native American land use practices?

323

323

324

Pest Management in Agricultural Systems

325

ENV 4200 (4 credits)

Course Description

327 A practical course in the biology, recognition, and management of common insect, fungal and
328 other pests of crops and livestock. Emphasis will be on how to reduce disease pressure through
329 knowledge of pest lifecycles and preventative measures. Management strategies will focus on
330 sustainable practices, integrated pest management and biocontrol.

Course objectives

- 332 • Students will understand the basic principles involved in sustainable methods of pest
333 control.
- 334 • Students will recognize signs and symptoms of disease problems in crops and livestock
- 335 • Students will be able to recognize and identify some of the insect pests common on
336 local crops and livestock.
- 337 • Students will analyze the life cycles of insects and diseases to devise effective control
338 strategies.
- 339 • Common local insects and pathogens will be used for illustration.

340

Course topics

- 342 • The plant disease triangle (host, pathogen and environment) and basic principles of
343 plant pathology
- 344 • Fungal diseases of plants
- 345 • Life cycles of common pest species of insects
- 346 • Bacteria, viruses, nematodes and other plant pathogens
- 347 • Integrated pest management (IPM) for the control of insects and pathogens
- 348 • Biocontrol agents
- 349 • Basic principles of sustainable livestock management
- 350 • Common diseases, parasites and insect pests of livestock.

351

351

352

Plant Cropping and Weed Management

353

ENV 3250 (3 credits)

Course Description

355 This course will explore the differences between crops and cropping, cropping seasons, plant
356 growth and development, and principles of sustainable weed management for croplands. It will
357 define and discuss the different agronomic/field crops and the concepts of multiple cropping and
358 intercropping as a sustainable method to maintain nutrient levels in the soil while increasing crop
359 yield. Concurrently, it will emphasize sustainable cropping systems that prevent weed problems,
360 rather than using quick-fix approaches. Alternatives to conventional tillage systems, including
361 allelopathy, intercropping, crop rotations, and a weed-free cropping design. Does not fulfill a
362 BIO elective.

Course Objectives

- 364 • Students will understand the differences between crops and cropping systems
- 365 • Students will identify the principles of sustainable weed management for croplands
- 366 • Students will recognize sustainable cropping systems that prevent weed problems
- 367 • Students will work on case studies used to analyze integrated farming systems that supply
- 368 multiple concepts of sustainable agriculture

Course Topics

- 370 • Crop rotations, intercropping and cover crops
- 371 • GE crops
- 372 • Managing weeds
- 373 • Sustainable soil management
- 374 • Root symbionts (mycorrhizae, rhizobium)
- 375 • Conservation tillage
- 376 • On-farm inputs to maintain soil fertility

377

378