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9-1-2016

## Curriculum Subcommittee Agenda, September 1, 2016

Utah State University

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**Curriculum Subcommittee Agenda  
1 September 2016**

A meeting of the Curriculum Subcommittee of the Educational Policies Committee will be held on 1 September 2016 at 2:00 pm in Old Main 136 (Champ Hall Conference Room).

1. *Approval of 7 April 2016 Minutes*  
<https://usu.box.com/s/0izkkz2mk30nbnjtziuxmk5g4zf5z2>
2. *Semester Course Approval Reviews*  
<https://usu.curriculog.com/>

***College of Agriculture and Applied Sciences***

ADVS = 5  
APEC =  
ASTE = 74  
LAEP =  
NDFS = 1  
PSC = 4

***Caine College of the Arts***

ART =  
MUSC =  
THEA =

***Jon M. Huntsman School of Business***

ACCT =  
BUS =  
ECN =  
MGT = 3  
MIS = 7

***Emma Eccles Jones College of Education and Human Services***

COMD =  
EDUC =  
FCHD =  
HPER =  
ITLS =  
NURS =  
PSY =  
SPED = 2  
TEAL = 1

***College of Engineering***

BENG =  
CEE = 1  
CS =  
ECE =  
EED =  
MAE =

*College of Humanities and Social Sciences*

ENGL =  
HIST = 3  
JCOM =  
LPCS = 3  
POLS = 4  
SSWA = 2

*S.J. & Jessie E. Quinney College of Natural Resources*

ENVS = 1  
WATS =  
WILD = 7

*College of Science*

BIOL = 4  
CHEM = 1  
GEOL =  
MATH = 6  
PHYS = 8

USU =

**1. ADVS - 5000 - One Health: People, Animals, and the Environment**

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**2. ADVS - 5400 - Environmental Toxicology** 

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**3. ADVS - 6400 - Environmental Toxicology** 

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**4. AG - ADVS - 2300**

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**5. AG - AUTO - 0010**

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**6. AG - AUTO - 0020**

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**7. AG - AUTO - 0021**

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**8. AG - AUTO - 0030**

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**9. AG - AUTO - 0031**

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**10. AG - AUTO - 0035**

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**11. AG - AUTO - 0040**

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**12. AG - AUTO - 0045**

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**13. AG - AUTO - 0050**

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14. AG - AV - 2000

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15. AG - AV - 2355

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16. AG - AV - 2510

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17. AG - AV - 2520

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18. AG - AV - 2545

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19. AG - AV - 3010

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20. AG - AV - 3120

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21. AG - AV - 3140

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22. AG - AV - 3410

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23. AG - AV - 3610

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24. AG - AV - 3720

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25. AG - AV - 3740

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26. AG - AV - 4280

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27. AG - AV - 4300

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28. AG - AV - 4480

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29. AG - AV - 4490

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30. AG - AV - 4505

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31. AG - AV - 4605

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32. AG - AV - 4610

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33. AG - AV - 4620

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34. AG - AV - 4660

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35. AG - AV - 4705

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36. AG - AV - 4720

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37. AG - AV - 5400

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38. AG - AV - 5420

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39. AG - AV - 5500

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40. AG - BCCM - 0100

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41. AG - BCCM - 0200

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42. AG - BCCM - 0300

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43. AG - BCCM - 0310

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44. AG - BCCM - 0400

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45. AG - BCCM - 0410

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46. AG - BCCM - 0500

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47. AG - BCCM - 0510

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48. AG - BCCM - 0520

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49. AG - BCCM - 0530

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50. AG - BCIS - 0020

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51. AG - BCIS - 0030

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52. AG - BCIS - 0040

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53. AG - BCIS - 0050

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54. AG - BCIS - 0060

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55. AG - BCIS - 0070

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56. AG - BCIS - 0080

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57. AG - BCIS - 0081

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58. AG - BCIS - 0090

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59. AG - BUSN - 0300

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60. AG - BUSN - 0310

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61. AG - BUSN - 0320

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62. AG - BUSN - 0340

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63. AG - CEAD - 5700

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64. AG - CEAS - 1000

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65. AG - CEAS - 5700

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66. AG - EDDT - 0010

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67. AG - HEAL - 0100

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68. AG - HEAL - 0105

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69. AG - HEAL - 0110

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70. AG - MINT - 0150

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71. AG - NDFS - 5320

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72. AG - WDEV - 0505

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73. AG - WELD - 0301

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74. AG - WELD - 0302

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75. BIOL - 5400 - Environmental Toxicology 

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76. BIOL - 6400 - Environmental Toxicology 

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77. CHEM - 5070 - Biophysical Chemistry

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78. COST - 1100 - Cosmetology Theory I

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79. COST - 1110 - Cosmetology Lab I

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80. COST - 1200 - Cosmetology Theory II

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81. COST - 1210 - Cosmetology Lab II

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82. COST - 2300 - Intermediate Cosmetology Theory I

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83. COST - 2310 - Intermediate Cosmetology Lab I

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84. EN - CEE - 2620

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85. HS - CEHI - 5700

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86. HS - CELP - 5700

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87. HS - CEPO - 5700

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**88. HS - CLAS - 1120**

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**89. HS - CMST - 3160**

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**90. HS - CMST - 3600**

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**91. HS - POLS - 6220**

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**92. HS - POLS - 6250**

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**93. HS - POLS - 6260**

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**94. HS - RELS - 3420**

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**95. HS - SOC - 2650**

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**96. HS - SOC - 6270**

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**97. MGT - 3590 - Small Business Consulting**

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**98. MGT - 3875 - Strategic Advertising Campaigns**

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**99. MGT - 6000 - Business Fundamentals**

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**100. MIS - 4330 - Advanced Database and Database Analytics**

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**101. MIS - 5400 - Systems and Analytics Programming**

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**102. MIS - 6230 - Management of Database Systems**

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**103. MIS - 6330 - Advanced Database Implementation**

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**104. MIS - 6500 - Data Mining**

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**105. MIS - 6610 - MIS Strategy for IT Professionals**

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**106. MIS - 6800 - Advanced Topics in Information Security**

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**107. NR - CEEN - 5700**

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**108. NR - CEWI - 5700**

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**109. NR - WILD - 2400**

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**110. NR - WILD - 3810**

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**111. NR - WILD - 4750**

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112. NR - WILD - 5450

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113. NR - WILD - 5460

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114. NR - WILD - 7200

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115. PHYS - 2200 - Elements of Mechanics

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116. PHYS - 2215 - Physics for Scientists and Engineers Lab I

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117. PHYS - 2220 - Physics for Scientists and Engineers II (BPS/QI)

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118. PHYS - 2225 - Physics for Scientists and Engineers Lab II

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119. PHYS - 2500 - Introduction to Computer Methods in Physics

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120. PHYS - 2710 - Introductory Modern Physics

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121. PHYS - 3710 - Intermediate Modern Physics

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122. PHYS - 4010 - Chaos Under Control (DSC/QI)

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123. PSC - 4830 - Atmospheric Instrumentation and Operation

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124. PSC - 4840 - Climate Dynamics

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125. PSC - 4850 - Physics of Climate

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126. PSC - 4860 - Atmospheric Thermodynamics

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127. PUBH - 5400 - Environmental Toxicology 🌿

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128. PUBH - 6400 - Environmental Toxicology 🌿

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129. SC - MATH - 0995

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130. SC - MATH - 1050

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131. SC - MATH - 1060

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132. SC - MATH - 1210

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133. SC - STAT - 1040

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134. SC - STAT - 1045

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135. SPED - 7040 - Literature Review

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136. SPED - 7060 - Research Internship

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137. TEAL - 6235 - Instructional Implications of Literacy Development

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### 3. *Program Proposals*

Request from the Department of Applied Economics in the College of Agriculture and Applied Sciences to change the name from Agricultural Economics to Applied Economics.

<https://usu.box.com/s/b1ahye7t3ypcmzgqjk0ua4oz6y1wg8yj>

Request from the Department of Plants, Soils and Climate in the College of Agriculture and Applied Sciences to offer a Minor in Residential Landscape Design.

<https://usu.box.com/s/epr9h7m9cw6xv3q6vy3i71kgh7y8reav>

Request from the Department of Wildland Resources in the S.J. & Jessie E. Quinney College of Natural Resources to add a Forest Ecology Specialization to the MS and PhD programs.

<https://usu.box.com/s/7ckwj2lg3v7r0shxlb9bps6ibmrlezlm>

### 4. *Other Business*

Approving Prerequisites – John Mortensen

The example below shows the MATH 1210 prerequisite, which includes several ways a prerequisite can be satisfied. By contrast, CEE 2240 has a similar prerequisite, but not all options are listed (e.g., SAT Math score of 620; AP Calculus AB score of 3, etc.).

#### *MATH 1210 Prerequisite*

One of the following within the last year or three consecutive semesters (including summer); ACT Math score of at least 27; SAT Math score of at least 620; AP Calculus AB score of at least 3; Grade of C- or better in MATH 1050 and MATH 1060; or satisfactory score on the Math Placement Exam.

#### *CEE 2240 Prerequisite (My suggested additions are in red)*

ACT Math score of 27 or higher; **SAT Math score of 620 or higher; AP Calculus AB score of 3 or higher; AP Calculus BC score of 3 or higher;** or credit for MATH 1050 and MATH 1060. Enrollment limited to students having majors within the College of Engineering.

Curriculog updates and site changes.

## CURRICULUM SUBCOMMITTEE MINUTES

7 April 2016

A meeting of the Curriculum Subcommittee of the Educational Policies Committee was held on 7 April 2016 at 2:00 pm in Old Main 136 (Champ Hall Conference Room).

Present: Ed Reeve, Chair, College of Agriculture and Applied Sciences  
Larry Smith, Chair, EPC  
Michele Hillard, Secretary  
Erin Brewer, Graduate Council  
Richard Mueller, College of Science  
Mike Lyons, College of Humanities and Social Sciences  
Karen Mock, S.J. & Jessie E. Quinney College of Natural Resources  
Jessica Hansen, Academic and Instructional Services  
Kacy Lundstrom, Libraries  
Dean Adams, College of Engineering  
Scott Henrie, USU-Eastern  
Roland Squire, Registrar's Office  
Scott Hunsaker, Emma Eccles Jones College of Education and Human Services  
Nathan Straight, Regional Campuses  
Heidi Kesler for Marci Smith, Registrar's Office  
Nicholas Morrison, Caine College of the Arts  
Vijay Kannan, Jon M. Huntsman School of Business

Absent: Scott Bates, Chair, Academic Standards  
Ty Aller, Graduate Studies Senator  
Janet Anderson, Office of the Provost

Visitors: Ashley Waddoups, USU Studentbody President Elect  
Jeannie Thomas, Department Head, English  
Paul Johnson, Department Head, Plants, Soils and Climate  
Dennis Dolny, Department Head, Health, Physical Education and Recreation

1. *Approval of 3 March 2016*

<https://usu.box.com/s/cwjtc8ay50a6opdsej23gvyyren4tey>

*Motion to approve the 3 March 2016 minutes made by Dean Adams. Seconded by Dick Mueller. Minutes approved*

2. *Semester Course Approval Reviews*

<https://usu.curriculog.com/>

***College of Agriculture and Applied Sciences***

*Motion to approve the business of the College of Agriculture and Applied Sciences made by Dean Adams. Seconded by Vijay Kannan. Amendment to make changes (listed below) made by Mike Lyons. Seconded by Vijay Kannan. Business approved with changes.*

ADVS = 2 (ADVS 6500 rejected needs a different course description)

APEC = 4

ASTE = 20 (AV 2501-2505 Needs different course titles)

(AV 5500 needs to have the work students-not student)

(AV 6130 crewmember should be two words)

LAEP = 4  
NDFS = 6  
PSC =

***Caine College of the Arts***

*Motion to approve the business of the Caine College of the Arts made by Nick Morrison. Seconded by Vijay Kannan. Business approved.*

ART =  
MUSC = 1  
THEA =

***Jon M. Huntsman School of Business***

ACCT =  
BUS =  
ECN =  
MGT =  
MIS =

***Emma Eccles Jones College of Education and Human Services***

*Motion to approve the business of the Emma Eccles Jones College of Education and Human Services made by Scott Hunsaker. Seconded by Dick Mueller. Business approved.*

COMD =  
EDUC =  
FCHD = 8  
HPER = 1  
ITLS =  
NURS =  
PSY = 2  
SPED =  
TEAL = 2

***College of Engineering***

*Motion to approve the business of the College of Engineering made by Dean Adams. Seconded by Dick Mueller. Business approved.*

BENG = 5  
CEE =  
CS = 3 (CS 2810 rejected at the request of Dean Adams)  
ECE = 4  
EED =  
MAE = 2

***College of Humanities and Social Sciences***

*Motion to approve the business of the College of Humanities and Social Sciences made by Mike Lyons. Seconded by Kacy Lundstrom. Business approved.*

ENGL = 6  
HIST = 4  
JCOM = 7  
LPCS = 5

POLS = 1

SSWA =

***S.J. & Jessie E. Quinney College of Natural Resources***

*Motion to approve the business of the S.J. & Jessie E. Quinney College of Natural Resources made by Karen Mock. Seconded by Dick Mueller. Business approved.*

ENVS = 4 (ENVS 2220 rejected)

(ENVS 4920 course description needs to include department approval)

WATS = 4 (WATS 5640 justification should read NR 2220 will be changed to WATS 2220 in Spring 2017)

WILD = 8

***College of Science***

*Motion to approve the business of the College of Science made by Dick Mueller. Seconded by Dean Adams. Business approved.*

BIOL = 6

CHEM =

GEOL = 4

MATH =

PHYS =

USU =

**1. ADVS - 5500 - Applied Animal Nutrition**

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**2. ADVS - 6500 - Applied Animal Nutrition**

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**3. APEC - 1600 - Natural Resources and American Economic Institutions**

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**4. APEC - 4900 - Directed Readings, Research, or Seminar Series**

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**5. APEC - 6910 - Independent Research**

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**6. ASTE - 3100 - Personal and Team Leadership**

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**7. AV - 1130 - Principles of Flight**

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**8. AV - 2160 - Aircraft Systems for the Professional Pilot**

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**9. AV - 2410 - Commercial Stage I Flight**

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**10. AV - 2500 - Flight Experience**

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**11. AV - 2501 - AV 2501 Flight Experience**

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**12. AV - 2502 - Flight Experience**

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**13. AV - 2503 - Flight Experience**

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**14. AV - 2504 - Flight Experience**

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**15. AV - 2505 - Flight Experience**

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16. AV - 4710 - Crew Resource Management

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17. AV - 5500 - Airline Transport Pilot (ATP) Ground School

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18. AV - 6110 - Air Transportation

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19. AV - 6130 - Aerospace Technology and Automation

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20. AV - 6140 - Aviation Safety: History and Research

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21. AV - 6330 - Flight Safety Program Management

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22. AV - 6340 - Aircraft Accident Investigation and Analysis

---

23. AV - 6350 - Aviation Security

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24. AV - 6900 - Aviation Independent Study

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25. AV - 6930 - Aviation Special Topics

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26. BENG - 4880 - Biological Engineering Design II

---

27. BENG - 6860 - Research Orientation and Planning ✖

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28. BENG - 6870 - Research Planning ✖

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29. BENG - 7860 - Research Orientation and Planning ✖

---

30. BENG - 7870 - Research Planning ✖

---

31. BIOL - 1610 - Biology I

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32. BIOL - 1615 - Biology I Laboratory

---

33. BIOL - 1620 - Biology II (BLS)

---

34. BIOL - 1625 - Biology II Laboratory

---

35. BIOL - 4060 - Exploring Animal Behavior (CI)

---

36. BIOL - 5250 - Evolutionary Biology (CI)

---

37. CS - 2810 - Computer Systems Organization and Architecture

---

38. CS - 6675 - Advanced Data Science and Mining ✖

---

39. CS - 7675 - Advanced Data Science and Mining ✖

---

40. ECE - 5760 - Hardware and Embedded Systems Security ✖

---

41. ECE - 6340 - Spacecraft Attitude Control Theory ✖

---

42. ECE - 6345 - Spacecraft Attitude Control Applications ✖

---

43. ECE - 6760 - Hardware and Embedded Systems Security ✖

---

44. ENGL - 3710 - TOPICS IN FOLKLORE ✖

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45. ENGL - 4220 - Teaching Literacy in Diverse Classrooms

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46. ENGL - 4340 - Studies in Prose

---

47. ENGL - 4530 - English Clinical Experience

---

48. ENGL - 5300 - Special Topics in Literary Studies (CI)

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49. ENGL - 5310 - Contemporary Literature

---

50. ENVS - 2220 - General Ecology

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51. ENVS - 4920 - Special Projects in Recreation Management

---

52. ENVS - 6830 - Graduate Student Publishing Seminar ✖

---

53. ESOL - 2410 - Comprehending Lecture Discourse

---

54. ESOL - 2420 - Writing from Academic Sources

---

55. ESOL - 2440 - Academic Discourse

---

56. ESOL - 2460 - Reading from Academic Sources

---

57. ESOL - 2470 - Cross-Cultural Perspectives

---

58. FCHD - 3310 - Consumer Policy

---

59. FCHD - 3510 - Infancy and Early Childhood

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60. FCHD - 3520 - Children in the Middle Years

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61. FCHD - 3530 - Adolescence

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62. FCHD - 4240 - Social and Family Gerontology

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63. FCHD - 4820 - Methods for Family Life Educators

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64. FCHD - 4830 - Senior Capstone Project

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65. FCHD - 4950 - Practicum: Consumer Science

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66. GEO - 1360 - Planet Earth

- 
67. GEO - 1380 - Where Science and Society Meet
- 
68. GEO - 5420 - Ore Deposits ✚
- 
69. GEO - 6420 - Ore Deposits ✚
- 
70. HIST - 3330 - Modern Russia and the Soviet Experience
- 
71. HIST - 4566 - Modern Islamic Thought ✚
- 
72. IOGP - 5930 - State and Local Government Internship
- 
73. JCOM - 1130 - News Writing
- 
74. JCOM - 2180 - Beginning Photojournalism
- 
75. JCOM - 3100 - Reporting Public Affairs (CI)
- 
76. JCOM - 3320 - Strategic Research Methods in Public Relations (DSS)
- 
77. JCOM - 4030 - Mass Media Law (DSS)
- 
78. JCOM - 4150 - Advanced Digital Photojournalism
- 
79. JCOM - 6430 - Mass Media Law
- 
80. LAEP - 2720 - Site Planning and Design
- 
81. LAEP - 4110 - Landscape Construction II
- 
82. LAEP - 4910 - Professional Communication and Leadership
- 
83. LAEP - 6160 - Professional Communication and Leadership
- 
84. MAE - 6340 - Spacecraft Attitude Control Theory ✚
- 
85. MAE - 6345 - Spacecraft Attitude Control Applications ✚
- 
86. MUSC - 2210 - Advanced Conducting Ensemble
- 
87. NDFS - 3600 - Medical Terminology for Health Care Professionals
- 
88. NDFS - 4990 -
- 
89. NDFS - 5210 - Advanced Public Health Nutrition
- 
90. NDFS - 6640 - Food Proteins & Enzymes
- 
91. NDFS - 6700 - Dairy Chemistry
- 
92. NDFS - 6790 - Current Issues in Dietetics
-

93.  
NEPA - 6230 - Risk Communication for NEPA Specialists: Strategies and Implementation
- 
94. PE - 4010 - Yoga Theory ✚
- 
95. POLS - 3260 - Politics and Society in Post-Colonial States ✚
- 
96. PSY - 3450 - Sensation and Perception
- 
97. PSY - 3460 - Neuroscience I
- 
98. RELS - 4566 - MODERN ISLAMIC THOUGHT ✚
- 
99. RELS - 4566 - Modern Islamic Thought ✚
- 
100. TEAL - 6340 - Integrating Literacy Across the Curriculum
- 
101. TEAL - 6785 - Instructional Practices for English Learners
- 
102. WATS - 2000 - Natural Resources Professional Orientation ✚
- 
103. WATS - 2220 - General Ecology ✚
- 
104. WATS - 5640 - Riparian Ecology and Management
- 
105. WATS - 7640 - Riparian Ecology and Management
- 
106. WILD - 3300 - Management Aspects of Wildlife Behavior (CI)
- 
107. WILD - 3800 - Wildland Plants and Ecosystems
- 
108. WILD - 3810 - Plant and Animal Populations
- 
109. WILD - 4600 - Conservation Biology
- 
110. WILD - 4700 - Ecological Foundations of Restoration
- 
111.  
WILD - 4750 - Monitoring and Assessment in Natural Resource and Environmental Management
- 
112. WILD - 5560 - Applied Avian Ecology
- 
113. WILD - 6560 - Applied Avian Ecology
-



**3. Program Proposals**

<https://usu.box.com/s/cwjtcc8ay50a6opdsej23gvyyren4tey>

Request from the Department of English in the College of Humanities and Social Sciences to offer an English Teaching Composite Baccalaureate degree.

*Motion to approve the Department of English proposal made by Mike Lyons. Seconded by Vijay Kannan. Proposal approved pending revisions. Jeannie Thomas will send revisions to Larry Smith and Michele Hillard.*

Request from the Department of Plants, Soils and Climate in the College of Agriculture and Applied Sciences to offer a Bachelor of Science degree in Climate Science.

*Motion to approve the Department of Plants, Soils and Climate proposal made by Dick Mueller. Seconded by Karen Mock. Proposal approved.*

Request from the Department of Watershed Sciences in the S.J. & Jessie E. Quinney College of Natural Resources to change the title in the current BS in Watershed and Earth Systems to BS in Management and Restoration of Aquatic Ecosystems.

*Motion to add this proposal to the agenda and approve the Department of Watershed Sciences proposal made by Mike Lyons. Seconded by Karen Mock. Proposal approved.*

**4. Other Business**

Syllabus task force update – A final task force meeting will be scheduled to provide guidelines and layout for syllabi.

**5. Election of AY 2016-2017 Curriculum Chair**

Vijay Kannan was nominated by Ed Reeve to be the 2016-2017 Curriculum Chair. Vote was unanimous.

Adjourned: 3:03 pm

**Utah System of Higher Education  
Changes to Existing Academic Program Proposal  
Cover/Signature Page - Abbreviated Template**

Institution Submitting Request:	Utah State University		
	<i>Current</i>		<i>Proposed (if applicable)</i>
Program Title:	Agricultural Economics		Applied Economics
Sponsoring School, College, or Division:	College of Agriculture and Applied Sciences		
Sponsoring Academic Department(s) or Unit(s):	Applied Economics		
Classification of Instruction Program Code <sup>1</sup> :	01.0103		45.0602
Min/Max Credit Hours for Full Program Required:	120	/ Max Cr Hr	120 / Max Cr Hr
Proposed Effective Term for Program Change <sup>2</sup> :	Fall	2017	
Institutional Board of Trustees' Approval Date:			
Award Type:	BS		

Program Change Type (check all that apply):

<input checked="" type="checkbox"/>	Name Change of Existing Program
<input type="checkbox"/>	Program Restructure with or without Consolidation
<input type="checkbox"/>	Program Transfer to a new academic department or unit
<input type="checkbox"/>	Program Suspension
<input type="checkbox"/>	Program Discontinuation
<input type="checkbox"/>	Reinstatement of Previously Suspended Program
<input type="checkbox"/>	Out of Service Area Delivery Program

**Chief Academic Officer (or Designee) Signature:**

I, the Chief Academic Officer or Designee, certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

Please type your first and last name \_\_\_\_\_ Date: \_\_\_\_\_

I understand that checking this box constitutes my legal signature.

<sup>1</sup> For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.

<sup>2</sup> "Proposed Effective Term" refers to term when change to program is published. For Suspensions and Discontinuations, "effective term" refers to the term the program will suspend admissions.

## Program Change Description - Abbreviated Template

### Section I: The Request

Utah State University requests approval to change name from Agricultural Economics to Applied Economics effective Fall 2017. This action was approved by the institutional Board of Trustees on \_\_\_\_ .

### Section II: Program Proposal

#### Program Change Description/Rationale

Agricultural Economics degrees have traditionally been the more science based degrees in many agricultural economics departments. In more recent times, many departments have broadened their programs and many traditional agricultural economics departments have changed their names to applied economics. Utah State University has followed this national trend with the department of Applied Economics name change in 2008. The Applied Economics department is requesting the name change for the B.S. degree from Agricultural Economics to Applied Economics to be more reflective of the breadth of the degree and to be more in line with the Agricultural and Applied Economics Association trends.

#### Consistency with Institutional Mission/Institutional Impact

This proposed B.S. major name change is consistent with the USU mission of being a student-centered land grant university. The new name is more reflective of the student's interests and likely helps them be marketable to a broader set of opportunities.

#### Finances

This change will have no financial impact as it is only a name change to an existing degree.

**Utah System of Higher Education  
New Academic Program Proposal  
Cover/Signature Page - Abbreviated Template**

**Institution Submitting Request:** Utah State University

**Proposed or Current Program Title:** Minor in Residential Landscape Design

**Sponsoring School, College, or Division:** College of Agriculture & Applied Sciences

**Sponsoring Academic Department(s) or Unit(s):** Plant, Soils & Climate

**Classification of Instructional Program Code<sup>1</sup> :** 01.0601

**Min/Max Credit Hours Required of Full Program:** 16 Cr Hr / 17 Cr Hr

**Proposed Beginning Term<sup>2</sup>:** Spring 2017

**Institutional Board of Trustees' Approval Date:**

<input type="checkbox"/> Certificate of Proficiency	<input type="checkbox"/> Entry-level CTE CP	<input type="checkbox"/> Mid-level CP
<input type="checkbox"/> Certificate of Completion		
X Minor		
<input type="checkbox"/> Graduate Certificate		
<input type="checkbox"/> K-12 Endorsement Program		
<input type="checkbox"/> NEW Emphasis for Regent-Approved Program		
<input type="checkbox"/> Out of Service Area Delivery Program		

**Chief Academic Officer (or Designee) Signature:**

I, the Chief Academic Officer or Designee, certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

\_\_\_\_\_ Date:

I understand that checking this box constitutes my legal signature.

<sup>1</sup> For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.

<sup>2</sup> "Proposed Beginning Term" refers to first term after Regent approval that students may declare this program.

## Program Description - Abbreviated Template

### Section I: The Request

Over the past several years, the Plants, Soils, and Climate Department (PSC) has offered a Bachelors degree in Residential Landscape Design & Construction. We are proposing a minor in Residential Landscape Design as a compliment to students majoring in Plant Science or Horticulture as well as students in other disciplines. In regards to the approval of the minor, it is important to realize that the faculty, facilities & funding will remain unchanged.

### Section II: Program

#### Proposal/Needs Assessment Program Description/Rationale

Over the past several years, the Plants, Soils, and Climate Department (PSC) has offered a Bachelors degree in Residential Landscape Design & Construction. We are proposing a minor in Residential Landscape Design as a compliment to students majoring in Plant Science or Horticulture as well as students in other disciplines. In regards to the approval of the minor, it is important to realize that the faculty, facilities & funding will remain unchanged.

#### Labor Market Demand

This program is valuable and will provide skills for students interested in starting a landscape business or progressing to higher positions in organizations that provide landscape services. The continued urbanization and population growth of Utah make it highly likely that there will continue to be strong labor market demand for graduates in horticulture focused on urban needs. The Utah Department of Workforce Services describes the positions relating to First-Line Supervisors of Landscaping, Lawn Service, and Grounds keeping Workers as having a good employment outlook and relatively high wages. The department also describes the field as having faster than average employment growth with a high volume of annual job openings. Business expansion, as opposed to the need for replacements, will provide the majority of job openings in the coming decade. This is likely due to the expectations of 1.6 million new residents in Utah by 2040 and 80% of these located along the Wasatch Front (Utah Legislature Briefing paper, Feb. 2014). As a result, it is expected that long term trends will be consistent or more likely grow for this degree with the increased demands on urban landscapes.

Students especially those in Plant Science or Horticulture that will work in an urban setting will have more tools to make them marketable if they have the working knowledge not only in plants, production, maintenance & care, but in residential landscape design as well. Currently we have students who major in RLDC and minor in Horticulture. This minor will allow students who choose to have their degree with more emphasis in plants & the sciences to be able to add that design component to their skill set.

This proposed minor is different from the minor in Landscape Architecture & all classes would be available on the Logan Campus & for students in RC along the Wasatch Front.

#### Consistency with Institutional Mission/Impact on Other USHE Institutions

We do not foresee the new minor affecting resources in a significant way. The faculty, staff and facilities are already in place and teaching the classes used in this proposed minor, nor will there be a change in existing administrative structures. The classes are all currently being taught for the BS in RLDC that is in Logan & in RC along the Wasatch Front.

**Finances**

Funding for the program is already in place and additional funds are not required. The new minor would increase students somewhat generating additional tuition income.

**Section III: Curriculum**

**Program Curriculum**

	Course Number	NEW Course	Course Title	Credit Hours
General Education Courses (list specific courses if recommended for this program on Degree Map)				
General Education Credit Hour Sub-Total				
Required Courses				
+ -	Prerequisite			
+ -	PSC	2600	Herbaceous Plant Materials	3
+ -	PSC	2620	Woody Plant Materials	3
+ -	Required Courses			
+ -	LAEP	1200	2 D Graphics Representation	4
+ -	PSC	3300	Residential Landscape Design	3
+ -	PSC	4301	Computer Aided Residential Landscape Design	2
+ -	PSC	4302	Advanced Computer Aided Residential Landscape Design	2
+ -	PSC	5090	Sustainable Low Water Use Landscapes	3
+ -			<b>Sub-Total</b>	<b>14</b>
Add A Group of Courses				
Required Course Credit Hour Sub-Total				
Elective Courses				
+ -			Choose one course	
+ -	PSC	3430	Landscape Construction Methods	2
+ -	PSC	3440	Landscape Business Practices	3
+ -				
+ -				
+ -				
+ -				
+ -				
+ -				
Add A Group of Courses				
Elective Credit Hour Sub-Total				2-3
Core Curriculum Credit Hour Sub-Total				16-17

Program Curriculum Narrative

**Degree Map**

*Degree maps pertain to undergraduate programs ONLY. Provide a degree map for proposed program. Degree Maps were approved by the State Board of Regents on July 17, 2014 as a degree completion measure. Degree maps or graduation plans are a suggested semester-by-semester class schedule that includes prefix, number, title, and semester hours. For more details see <http://higheredutah.org/pdf/agendas/201407/TAB%20A%202014-7-18.pdf> (Item #3).*

**Program Schedule for Logan students: must have pre requisite classes PSC 2600 & PSC 2620**

Fall or any semester prior to PSC 3300 LAEP 1200 (4) 2 D Graphics Representation	Spring PSC 3300 (3) Residential Landscape Design	
Fall PSC 4301 (2) Computer Aided Residential Landscape Design (elective: PSC 3430 (2) Landscape Construction Methods)	Spring PSC 4302 (2) Advanced Computer Aided Residential Landscape Design (elective: PSC 3440 (3) Landscape Business Practices	Summer PSC 5090 (3) Sustainable Low Water Use Landscapes

**Program Schedule for RC students: must have pre requisite classes PSC 2600 & PSC 2620**

Fall odd years or any semester prior to PSC 3300 LAEP 1200 (4) 2 D Graphics Representation	Spring even years PSC 3300 (3) Residential Landscape Design	
Fall even years PSC 4301 (2) Computer Aided Residential Landscape Design (elective: PSC 3430 (2) Landscape Construction Methods)	Spring odd years PSC 4302 (2) Advanced Computer Aided Residential Landscape Design (elective: PSC 3440 (3) Landscape Business Practices	Summer odd years PSC 5090 (3) Sustainable Low Water Use Landscapes

Toggle Cut-and-Paste

Toggle Table

**Cover/Signature Page - Abbreviated Template/Abbreviated Template with Curriculum**

**Institution Submitting Request:** Utah State University  
**Proposed Title:** Forest Ecology specialization within the M.S. and Ph.D. Ecology degrees  
**Currently Approved Title:** n/a  
**School or Division or Location:** Quinney College of Natural Resources, USU Logan campus  
**Department(s) or Area(s) Location:** Wildland Resources  
**Recommended Classification of Instructional Programs (CIP) Code<sup>1</sup> (for new programs):** 03.0502  
**Current Classification of Instructional Programs (CIP) Code (for existing programs):** n/a  
**Proposed Beginning Date (for new programs):** 01/07/2017  
**Institutional Board of Trustees' Approval Date:**

**Proposal Type (check all that apply):**

Regents' General Consent Calendar Items		
<i>R401-5 OCHE Review and Recommendation; Approval on General Consent Calendar</i>		
SECTION NO.		ITEM
5.1.1	<input type="checkbox"/>	Minor*
5.1.2	<input checked="" type="checkbox"/>	Emphasis* (Forest Ecology Specialization)
5.2.1	<input type="checkbox"/>	(CER P) Certificate of Proficiency*
5.2.3	<input type="checkbox"/>	(GCR) Graduate Certificate*
5.4.1	<input type="checkbox"/>	New Administrative Unit
	<input type="checkbox"/>	Administrative Unit Transfer
	<input type="checkbox"/>	Administrative Unit Restructure
	<input type="checkbox"/>	Administrative Unit Consolidation
5.4.2	<input type="checkbox"/>	Conditional Three-Year Approval for New Centers, Institutes, or Bureaus
5.4.3	<input type="checkbox"/>	New Center
	<input type="checkbox"/>	New Institute
	<input type="checkbox"/>	New Bureau
5.5.1	<input type="checkbox"/>	Out-of-Service Area Delivery of Programs
5.5.2	<input type="checkbox"/>	Program Transfer
	<input type="checkbox"/>	Program Restructure
	<input type="checkbox"/>	Program Consolidation
5.5.3	<input type="checkbox"/>	Name Change of Existing Programs
5.5.4	<input type="checkbox"/>	Program Discontinuation
	<input type="checkbox"/>	Program Suspension
5.5.5	<input type="checkbox"/>	Reinstatement of Previously Suspended Program
	<input type="checkbox"/>	Reinstatement of Previously Suspended Administrative Unit

*\*Requires "Section V: Program Curriculum" of Abbreviated Template*

**Chief Academic Officer (or Designee) Signature:**

I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

\_\_\_\_\_  
**Signature**  
**Printed Name:**

**Date:**

<sup>1</sup> CIP codes must be recommended by the submitting institution. For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.



**Program Request - Abbreviated Template**  
**Utah State University**  
**Specialization in Forest Ecology, MS or PhD in Ecology**  
*MM/DD/YEAR*

**Section I: Request**

Utah State University offers MS and PhD degrees in Ecology through multiple Departments and Colleges at Utah State University. Two specializations exist for this degree: the Aquatic Ecology specialization (offered through the Watershed Sciences Department) and the Wildlife Ecology specialization (offered through the Wildland Resources Department). The Wildland Resources Department (WILD) proposes to add a Forest Ecology specialization at the MS and PhD levels. This would be a specialization conferred only by the Wildland Resources Department, which is the home to the majority of courses involved in the proposal, and is also home to the majority of USU faculty with expertise in Forestry.

In the past, Departments offered a variety of different types of ecology-related graduate degrees, but several years ago most of these (including Forest Ecology) were collapsed into a single degree in Ecology (MS or PhD) with a set of core requirements. Some of these original degrees were retained as specializations, including Aquatic Ecology and Wildlife Ecology. Forest Ecology was not retained as a specialization at that time by WILD.

**Section II: Need**

The forestry profession is increasingly incorporating ecological principles, with sustainability, wildlife and fisheries habitat conservation, water quality issues, and carbon sequestration become management priorities. Similarly, forestry-related employers increasingly value ecological experience and expertise in students, and students are increasingly interested in ecological perspectives. For example, beginning in 2012, the USDA Forest Service is required to include substantive assessment of "ecological integrity" of forest ecosystems in their management plans. The Utah State University Wildland Resources Department offers a degree in Forestry, but this degree is not explicitly focused on forest ecology. Students with specific interest in forest ecology careers must choose between having a degree called "Forestry" but enjoying none of the benefits of Ecology Center affiliation, or having a degree called "Ecology" and relying on future employers to notice forestry-related coursework on their transcripts. A Forest Ecology specialization transcript designation would make it simpler for both students and future employers to understand the degree focus and content. Through informal discussions among faculty and graduate students in WILD, both of these advantages have become apparent. As an example, of the 26 graduate students completing Ecology degrees in WILD since 2012, 5 would likely have opted for the Forest Ecology specialization had it existed, according to their advisors. There are at least 4 graduate students currently enrolled in WILD Forestry and Ecology degree programs who would also prefer a Forest Ecology specialization designation.

**Section III: Institutional Impact**

No significant institutional impact is anticipated. Two of the courses required for this specialization (WILD 6350 and WILD 6730) are already options in the Ecology degree course menus so students choosing a specialization would simply choose those courses. The proposed specialization will also require one additional course for MS students (2 for PhD students) to come from a menu of 5 WILD courses which are

already being offered. The enrollment in all of these courses is currently quite small, and additional students can easily be accommodated without adding sections, instructors, or teaching assistants. Graduate students in forest ecology research are typically in WILD and typically take these courses anyway, so the specialization is a way to formalize and recognize this emphasis.

#### Section IV: Finances

No budgetary impacts are anticipated.

#### Section V: Program Curriculum

The Forest Ecology specialization within the Ecology degree would meet existing requirements within WILD as well as the existing requirements for the Ecology graduate degree (MS or PhD). The proposed Forest Ecology specialization would require the following elements:

- 1) Both MS and PhD students are required to take:  
WILD 6350 Wildland Soils (Spring, 3 cr.; satisfies existing Biophysical Ecology block requirement in Ecology degree)
- 2) Both MS and PhD students are required to take:  
WILD 6730 Forest Community Ecology (Spring, offered in odd numbered years, 3 cr.; satisfies existing Organismic, Population & Evolutionary Ecology block requirement in Ecology degree)
- 3) For PhD students: one course from any of the other remaining Ecology blocks (an existing requirement for the Ecology degree)
- 4) One of the following courses for MS students, two for PhD students:  
WILD 5710 Forest Vegetation Disturbance Ecology and Management (Fall, 3 cr.)  
WILD 6570 Forest Ecology of the Sierra Nevada and White Mountains (Summer, 3 cr.)  
WILD 5700 Forest Assessment and Management (Spring, 3 cr.)  
WILD 7200 Plant Physiological Ecology (Fall, 3 cr.)  
WILD 7400 Plant Population Ecology (Fall, 3 cr.)
- 5) WILD 6800/7800 Wildland Resources Department seminar (Fall & Spring, 1 cr., an existing requirement for all WILD graduate students)
- 6) WILD 6780 Ecology seminar (Fall, Spring, 1 cr., an existing requirement for the Ecology degree)  
MS students must register for this seminar once in each of the two years of their programs; PhD students must register for this seminar once in each of three years of their programs.
- 7) The remaining credit hours for the MS or PhD degree would be determined by the student and his/her committee and following the remaining requirements of the Ecology degree.

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The existing Ecology degree core requirements (MS and PhD) are described below. Courses designated in the proposed Forest Ecology specialization which are also in the Ecology degree course menus (blocks) are in bold font. The Ecology graduate degree requirements are few and flexible. Students must meet these requirements, as well as any additional ones specified by their home departments. Specific courses are chosen in consultation with the student's Graduate Advisory Committee. There are no additional requirements in WILD Ecology degrees.

- 1) The degree is research-based and requires a thesis or dissertation.
- 2) Regular participation in the Ecology Center Seminar Series and associated events is expected.  
MS students must register for the Ecology Seminar in each of two years during their program of study.  
PhD students must register for Ecology Seminar in each of three years during their program of study.
- 3) The degree requires some demonstrated breadth of knowledge in Ecology, most often satisfied with courses from the topical Blocks listed below.

MS students must take three credits each from two of the Blocks.

PhD students must take three credits each from three of the Blocks.

Students may substitute other courses from the same topical area by request of the graduate supervisory committee to the Ecology Center Director.

#### Block #1: Biophysical Ecology

CEE 6740 Environmental Quality Modeling/Surface Water Quality Modeling

GEO/ PSC/WATS 6680 Paleoclimatology

GEO/WATS 6150 Fluvial Geomorphology

PSC 6130 Soil Genesis, Morphology, and Classification

PSC 6500 Environmental Physics of Land Ecosystems and Climate

PSC 6820 Environmental Biophysics

WATS 6900 Fluvial Hydraulics & Ecohydraulics

WILD/PSC 5350/6350 Wildland Soils

#### Block #2: Organismic, Population, and Evolutionary Ecology

BIOL 6240 Physiological Ecology of Vertebrates

BIOL 6260 Behavioral Ecology

BIOL 6380 Evolutionary Genetics

BIOL 6600 Comparative Animal Physiology

WATS 6230/7230 Fish Ecology

WILD 6401 Population State Variables

WILD 6402 Demographic Vital Rates

WILD 6403 Dynamics of Structured Populations

WILD 6720/7720 Advanced Conservation Biology

WILD 6730 Forest Community Ecology

WILD 7200 Plant Physiological Ecology

WILD 7400 Plant Population Ecology

#### Block #3: Community, Ecosystem, and Landscape Ecology

BIOL 6010 Biogeography

BIOL/PSC/WILD 6200 Biogeochemistry of Terrestrial Ecosystems

BIOL 6590 Animal Community Ecology

WATS 6310 Wetland Ecology and Management  
WATS/WILD 6700 Restoration Ecology  
WATS 6820/7820 Stream Ecology  
WILD 6710/7710 Landscape Ecology  
WILD 6770 Plant Community Ecology  
WILD 6900 Invasion Ecology  
WILD 7000 Wildland Ecosystem Management

Block #4: Quantitative Ecology

BIOL/MATH 6820 Applied Math in Biology (Powell)  
BIOL 6750 Introduction to Programming and Database Management for Biologists  
BIOL 6750 Advanced Programming and Database Management for Biologists  
STAT 5120 Categorical Data Analysis  
STAT 5570/6570 Statistical Bioinformatics  
STAT 5600 Applied Multivariate Statistics  
STAT 6200 Analysis of Unbalanced Data and Complex Experimental Designs  
WATS 6900 Hydrologic Modeling for Watershed Sciences  
WATS 6920 Geographic Information Systems  
WILD 6510 Topics in Spatial Ecology

Block #5: Human Ecology

ASTE 5260/6260 Environmental Aspects of Agricultural Systems  
ENVS 6150 Conservation Policy for Private Lands  
ENVS 6320 Water Law and Policy in the United States  
ENVS 6900 Introduction to Environmental Law and Policy  
ENVS 6400 Ecological Aspects of Wildland Recreation  
ENVS 6580 Sustainable Nature-Based Tourism  
ENVS 6200 Bioregional Analysis and Planning  
LAEP 6110 Landscape Planning for Wildlife  
LAEP 6270 Site Analysis: Social, Behavioral, and Biophysical Dimensions  
ENVS 6900 Translational Ecology  
APEC 5560 Natural Resource and Environmental Economics  
ENVS 5550/6550 Sustainability: Concepts and Measurement  
ANTH 5340/6340 Archaeology of the Desert West  
ENVS 6300/7300 Social and Environmental Psychology of Natural Resources  
HIST 6460 Environmental History (Conte)  
SOC 5640/6640 Conflict Management in Natural Resources  
SOC 6620 Environment, Technology, and Social Change  
SOC 6630 Natural Resources and Social Development