

# Equity and Justice UCORE: Summary of Catalog Updates

## College of Agricultural, Human, and Natural Resource Sciences (no. 2)

### Summary of Catalog Updates for:

### Integrated Plant Sciences; Viticulture and Enology

The following schedules of studies reflect the updates to the *WSU Catalog* 4-year plans in response to the new Equity and Justice [EQJS] UCORE designation. The updates have been reviewed and approved by the respective departments and college leadership. The effective date is fall 2023 for incoming students.

The departments listed in this summary bulletin will require all 7 Ways of Knowing designations: ARTS, BSCI, DIVR, EQJS, HUM, PSCI, and SSCI, including one lab science (BSCI or PSCI). The other UCORE requirements have not changed.

ADVISORY NOTE: The updates below do not reflect any requirement changes that are in process for next year's catalog. Any requirement changes will be updated with the EQJS information once approved.

Department	Summary of updated schedules of studies for EQJS
<p><b>Integrated Plant Sciences</b></p>	<p><b>Agricultural Biotechnology (120 Credits)</b></p> <p><b>First Year</b></p> <p><i>First Term</i> <span style="float: right;"><i>Credits</i></span></p> <p>CHEM 105 [PSCI] <span style="float: right;">4</span></p> <p>ENGLISH 101 [WRTG] <span style="float: right;">3</span></p> <p>HORT / CROP SCI 102 <span style="float: right;">3</span></p> <p>MATH 140 [QUAN] or MATH 106/108 [QUAN] <span style="float: right;">4 or 5</span></p> <p><i>Second Term</i> <span style="float: right;"><i>Credits</i></span></p> <p>CHEM 106 <span style="float: right;">4</span></p> <p>ECONS 101 [SSCI] <span style="float: right;">3</span></p> <p>HISTORY 105 [ROOT] <span style="float: right;">3</span></p> <p>HORT / CROP SCI 202 <span style="float: right;">4</span></p> <p><b>Second Year</b></p> <p><i>First Term</i> <span style="float: right;"><i>Credits</i></span></p> <p>BIOLOGY 106 [BSCI] or 107 [BSCI] <span style="float: right;">4</span></p> <p>Communication [COMM] or Written Communication [WRTG]<sup>1</sup> <span style="float: right;">3 or 4</span></p> <p>STAT 212 [QUAN] <span style="float: right;">4</span></p> <p><b>Electives</b> <span style="float: right;"><b>3</b></span></p> <p><b>Equity and Justice [EQJS]</b> <span style="float: right;"><b>3</b></span></p> <p><i>Second Term</i> <span style="float: right;"><i>Credits</i></span></p>

Arts [ARTS]	3
BIOLOGY 106 or 107	4
ENTOM 351	3
Humanities [HUM]	3
SOIL SCI 201	3
Complete Writing Portfolio	

### Third Year

<i>First Term</i>	<i>Credits</i>
BIOLOGY 420	3
CHEM 345	4
ENTOM 343 [M]	3
MBIOS 301	4
PL P 429	3
<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
MBIOS 303	4
MBIOS 305	3
Electives	4

### Fourth Year

<i>First Term</i>	<i>Credits</i>
CPT S 115 <sup>2</sup>	3
HORT 480	3
MBIOS 404	3
MBIOS 478	3
Elective	4
<i>Second Term</i>	<i>Credits</i>
400-500-level Seminar in CAHNRS <sup>3</sup>	1
CROP SCI 445 [M]	4
CROP SCI 495	1
HORT 416 <sup>4</sup>	3
Integrative Capstone [CAPS] (CROP SCI 435 [CAPS] recommended)	3
MBIOS 401	3

### Footnotes

<sup>1</sup> COM 102 or H D 205 recommended.

<sup>2</sup> STAT 412 can be taken as an alternative to CPT S 115.

<sup>3</sup> Seminar in CAHNRS (1 credit): AGTM 451, CROP SCI /SOIL SCI 412, HORT/VIT ENOL 409, or as approved by advisor.

<sup>4</sup> CROP SCI 411 [M] can be taken in the fall as an alternative to HORT 416

## Field Crop Management (120 Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
CHEM 101 [PSCI] or 105 [PSCI]	4
Communication [COMM] or Written Communication [WRTG] <sup>1</sup>	3 or 4
ENGLISH 101 [WRTG]	3
HORT / CROP SCI 102	3

<i>Second Term</i>	<i>Credits</i>
CHEM 102 or 106	4
ECONS 101 [SSCI]	3
HISTORY 105 [ROOT]	3
HORT / CROP SCI 202	4

### Second Year

<i>First Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI], 107 [BSCI], or 120 [BSCI]	4
SOIL SCI 201	3
SOIL SCI 202	1
STAT 212 [QUAN]	4
Electives	4

<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
BIOLOGY 106, 107, or 120	4
Diversity [DIVR]	3
MATH 140 [QUAN] <sup>2</sup>	4
<b>Electives</b>	<b>3</b>
<b>Equity and Justice [EQJS]</b>	<b>3</b>
Complete Writing Portfolio	

### Third Year

<i>First Term</i>	<i>Credits</i>
CROP SCI 305	3
ECONS 350 <sup>3</sup>	3
ENTOM 343 [M]	3
Major Electives <sup>4</sup>	3

Electives	3
<i>Second Term</i>	<i>Credits</i>
CROP SCI 302	3
CROP SCI 495, 498, or 499	1
ENTOM 351	3
Humanities [HUM]	3
Electives	4

#### **Fourth Year**

<i>First Term</i>	<i>Credits</i>
CROP SCI 403	3
CROP SCI 411 [M] <sup>5</sup>	3
PL P 429	3
Electives	3
Major Electives <sup>4</sup>	3
<i>Second Term</i>	<i>Credits</i>
CROP SCI 412	1
Integrative Capstone [CAPS]	3
SOIL SCI 441	3
Electives	6
Major Electives <sup>4</sup>	3

#### **Footnotes**

<sup>1</sup> COM 102 or H D 205 recommended.

<sup>2</sup> MATH 106 and 108 can be taken as an alternative to MATH 140.

<sup>3</sup> ECONS 352 can be taken in the spring as an alternative to ECONS 350.

<sup>4</sup> Major Elective (9 Credits): AFS 302 [M]; CROP SCI 360, 445 [M], 480, 495, 498, 499; ENTOM 361, 460; HORT 357; SOIL SCI 442; and/or consult with your advisor. No more than 3 credits of 495, 498, or 499 may be used toward Major Elective credits.

<sup>5</sup> HORT 416 can be taken in the spring as an alternative to CROP SCI 411 [M]. However, two [M] courses are required so one elective should have [M] designation.

### **Fruit and Vegetable Management (120 Credits)**

#### **First Year**

<i>First Term</i>	<i>Credits</i>
CHEM 101 [PSCI] or 105 [PSCI]	4

Communication [COMM] or Written Communication [WRTG] <sup>1</sup>	3 or 4
HISTORY 105 [ROOT]	3
HORT / CROP SCI 102	3
<i>Second Term</i>	<i>Credits</i>
CHEM 102 or 106	4
ENGLISH 101 [WRTG]	3
HORT / CROP SCI 202	4
Humanities [HUM]	3
<b>Second Year</b>	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI] or 120 [BSCI]	4
Arts [ARTS]	3
Diversity [DIVR]	3
MATH 140 [QUAN], 171 [QUAN], 202 [QUAN], or STAT 212 [QUAN]	3 or 4
SOIL SCI 201	3
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107	4
ECONS 101 [SSCI] or 102 [SSCI]	3
HORT 351	4
Sustainability Elective <sup>2</sup>	2 or 3
<b>Electives</b>	<b>3</b>
<b>Equity and Justice</b>	<b>3</b>
Complete Writing Portfolio	
<b>Third Year</b>	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 420	3
ENTOM 343 [M]	3
HORT 310	3
HORT 320	3
Electives	3
<i>Second Term</i>	<i>Credits</i>
ENTOM 351	3
Environmental HORT Elective <sup>3</sup>	3
SOIL SCI 441	3
Electives	6
<i>Third Term</i>	<i>Credits</i>

(Summer Session) HORT 399 1

### **Fourth Year**

<i>First Term</i>	<i>Credits</i>
HORT 313	3
HORT 418 [M]	3
Pest Management Elective <sup>4</sup>	2 or 3
PL P 300 or PL P 429	2 or 3
Electives	5
<i>Second Term</i>	<i>Credits</i>
Advanced Fruit or Vegetable Elective <sup>5</sup>	3
HORT 416 <sup>6</sup>	3
HORT 425 [M] [CAPS]	3
Electives	6

### **Footnotes**

<sup>1</sup> COM 102 or H D 205 recommended.

<sup>2</sup> Sustainability Elective courses (2-3 credits): BIOLOGY 330, 372 [M]; SOE 110; SOIL SCI 101, 302, 480; or as approved by advisor.

<sup>3</sup> Environmental Horticulture Elective courses (3 credits): HORT 330, 331, 332, 357; or as approved by advisor.

<sup>4</sup> Pest Management Elective courses (2-3 credits): CROP SCI 305; IPM 452, PL P 300, 429; or as approved by advisor. Courses cannot be used to fulfill more than one major requirement.

<sup>5</sup> Advanced Fruit or Vegetable Elective courses (3 credits): HORT 413, 421 [M], or 480, or as approved by advisor.

<sup>6</sup> CROP SCI 411 [M] can be taken in the fall as an alternative to HORT 416.

## **Landscape, Nursery, and Greenhouse Management (120 Credits)**

### **First Year**

<i>First Term</i>	<i>Credits</i>
BIOLOGY 107 [BSCI] or 120 [BSCI]	4
Communication [COMM] or Written Communication [WRTG] <sup>1</sup>	3 or 4
HISTORY 105 [ROOT]	3
HORT / CROP SCI 102	3
Electives	3
<i>Second Term</i>	<i>Credits</i>

BIOLOGY 106, 107, or 120	4
ENGLISH 101 [WRTG]	3
HORT / CROP SCI 202	4
MATH 140 [QUAN], 171 [QUAN], 202 [QUAN], or STAT 212 [QUAN]	3 or 4
<b>Second Year</b>	
<i>First Term</i>	<i>Credits</i>
CHEM 101 [PSCI] or 105 [PSCI]	4
HORT 330	3
Humanities [HUM]	3
SOIL SCI 201	3
<b>Electives</b>	<b>3</b>
<b>Equity and Justice [EQJS]</b>	<b>3</b>
<i>Second Term</i>	<i>Credits</i>
CHEM 102 or 106	4
HORT 357	3
HORT 358	1
Horticulture Elective <sup>2</sup>	3
Electives	3
Complete Writing Portfolio	
<b>Third Year</b>	
<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
Diversity [DIVR]	3
ENTOM 343 [M]	3
Horticulture Elective <sup>2</sup>	3
Electives	2
<i>Second Term</i>	<i>Credits</i>
ENTOM 351	3
HORT 331	3
HORT 351	4
Social Sciences [SSCI]	3
Electives	3
<i>Third Term</i>	<i>Credits</i>
(Summer Session) HORT 399	1
<b>Fourth Year</b>	

<i>First Term</i>	<i>Credits</i>
Advanced Plant Science Elective <sup>3</sup>	3
Horticulture Elective <sup>2</sup>	3
PL P 300 or 429	2 or 3
Electives	6
<i>Second Term</i>	<i>Credits</i>
Advanced Plant Science Elective <sup>3</sup>	3
HORT 416 <sup>4</sup>	3
HORT 425 [CAPS] [M]	3
SOIL SCI 302 [M] or 441	3
Electives	3

### Footnotes

<sup>1</sup> COM 102 or H D 205 recommended.

<sup>2</sup> Horticulture Electives (9 credits minimum): Approved courses include CROP SCI 301, 305, 401 [M], 443, HORT 310, 313, 320, 350, SOIL SCI 101, or as approved by advisor.

<sup>3</sup> Advanced Plant Science Electives (6 credits): BIOLOGY 301, 332 [M], 372 [M], 409, 462, HORT 418 [M], 445 [M], 480, SOE 300, 450 [M], 454 [M], 464 [M], or as approved by advisor.

<sup>4</sup> CROP SCI 411 [M] can be taken in the fall as an alternative to HORT 416.

## Turfgrass Management (120 Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
CHEM 101 [PSCI]	4
Communication [COMM] or Written Communication [WRTG] <sup>1</sup>	3 or 4
ENGLISH 101 [WRTG]	3
HORT / CROP SCI 102	3

<i>Second Term</i>	<i>Credits</i>
CHEM 102	4
HISTORY 105 [ROOT]	3
HORT / CROP SCI 202	4
STAT 212 [QUAN]	4

### Second Year

<i>First Term</i>	<i>Credits</i>
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BIOLOGY 106 [BSCI]	4
Diversity [DIVR]	3
ECONS 101 [SSCI]	3
SOIL SCI 201	3
<b>Electives</b>	<b>3</b>
<b>Equity and Justice [EQJS]</b>	<b>3</b>
<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
BIOLOGY 107 or 120	4
ENTOM 351	3
Humanities [HUM]	3
Electives	3
Complete Writing Portfolio	
<b>Third Year</b>	
<i>First Term</i>	<i>Credits</i>
AGTM 315	3
CROP SCI 301	3
CROP SCI 305	3
ECONS / BUSINESS Electives <sup>2</sup>	3
ENTOM 343 [M]	3
<i>Second Term</i>	<i>Credits</i>
AGTM 412	3
CROP SCI / HORT Elective <sup>3</sup>	3
SOIL SCI 441	3
SOIL SCI 442	2
Electives	2
<i>Third Term</i>	<i>Credits</i>
(Summer Session) CROP SCI 495, 498, or 499	3
<b>Fourth Year</b>	
<i>First Term</i>	<i>Credits</i>
AGTM Electives <sup>4</sup>	3
CROP SCI 411 [M] <sup>5</sup>	3
PL P 429	3
Electives	6
<i>Second Term</i>	<i>Credits</i>
CROP SCI 401 [M]	3
CROP SCI 412	1

	<p>Integrative Capstone [CAPS] 3</p> <p>Electives 7</p> <hr/> <p><b>Footnotes</b></p> <p><sup>1</sup> COM 102 or H D 205 recommended.</p> <p><sup>2</sup> ECONS/BUSINESS Elective (3 credits): ACCTG 230; ECONS 350, 352; MGMT 301; and/or consult with your advisor.</p> <p><sup>3</sup> CROP SCI/HORT Elective (3 credits): CROP SCI 302; HORT 231, 232, 331; and/or consult with your advisor.</p> <p><sup>4</sup> AGTM Electives (3 credits): AGTM 310, 314, 416; and/or consult with your advisor.</p> <p><sup>5</sup> HORT 416 can be taken in the spring as an alternative to CROP SCI 411 [M].</p>																																								
<p><b>Viticulture and Enology</b></p>	<p><b>BS in Viticulture and Enology (Tri-Cities Only) (120 Credits)</b></p> <p><b>First Year</b></p> <table data-bbox="459 892 1513 1150"> <thead> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>CHEM 101 [PSCI] or 105 [PSCI]</td> <td>4</td> </tr> <tr> <td>ECONS 101 [SSCI] or 102 [SSCI]</td> <td>3</td> </tr> <tr> <td>HISTORY 105 [ROOT]</td> <td>3</td> </tr> <tr> <td>MATH 103 or 106<sup>1</sup></td> <td>3</td> </tr> <tr> <td>VIT ENOL 113</td> <td>3</td> </tr> </tbody> </table> <table data-bbox="459 1178 1513 1392"> <thead> <tr> <th><i>Second Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>CHEM 102 or 106</td> <td>4</td> </tr> <tr> <td>ENGLISH 101 [WRTG]</td> <td>3</td> </tr> <tr> <td>SOIL SCI 201</td> <td>3</td> </tr> <tr> <td>STAT 212 [QUAN]</td> <td>4</td> </tr> </tbody> </table> <p><b>Second Year</b></p> <table data-bbox="459 1493 1513 1661"> <thead> <tr> <th><i>First Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>BIOLOGY 120 [BSCI]</td> <td>4</td> </tr> <tr> <td>CHEM 345</td> <td>4</td> </tr> <tr> <td>Communication [COMM] or Written Communication [WRTG]<sup>2</sup></td> <td>3 or 4</td> </tr> </tbody> </table> <table data-bbox="459 1671 1513 1751"> <tbody> <tr> <td><b>Electives</b></td> <td><b>3</b></td> </tr> <tr> <td><b>Equity and Justice [EQJS]</b></td> <td><b>3</b></td> </tr> </tbody> </table> <table data-bbox="459 1776 1513 1896"> <thead> <tr> <th><i>Second Term</i></th> <th><i>Credits</i></th> </tr> </thead> <tbody> <tr> <td>Arts [ARTS]</td> <td>3</td> </tr> <tr> <td>BIOLOGY 107</td> <td>4</td> </tr> </tbody> </table>	<i>First Term</i>	<i>Credits</i>	CHEM 101 [PSCI] or 105 [PSCI]	4	ECONS 101 [SSCI] or 102 [SSCI]	3	HISTORY 105 [ROOT]	3	MATH 103 or 106 <sup>1</sup>	3	VIT ENOL 113	3	<i>Second Term</i>	<i>Credits</i>	CHEM 102 or 106	4	ENGLISH 101 [WRTG]	3	SOIL SCI 201	3	STAT 212 [QUAN]	4	<i>First Term</i>	<i>Credits</i>	BIOLOGY 120 [BSCI]	4	CHEM 345	4	Communication [COMM] or Written Communication [WRTG] <sup>2</sup>	3 or 4	<b>Electives</b>	<b>3</b>	<b>Equity and Justice [EQJS]</b>	<b>3</b>	<i>Second Term</i>	<i>Credits</i>	Arts [ARTS]	3	BIOLOGY 107	4
<i>First Term</i>	<i>Credits</i>																																								
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VIT ENOL 113	3																																								
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Arts [ARTS]	3																																								
BIOLOGY 107	4																																								

Diversity [DIVR]	3
Humanities [HUM]	3
Complete Writing Portfolio	

### **Third Year**

<i>First Term</i>	<i>Credits</i>
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BIOLOGY 420	3
ENTOM 343 [M]	3
HORT/VIT ENOL 313	3
MBIOS 101 <sup>3</sup>	4
PL P 300 <sup>4</sup>	2

<i>Second Term</i>	<i>Credits</i>
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ENTOM 351	3
HORT/VIT ENOL 413	3
MBIOS 303 or CHEM 370	4 or 3
Specialization Electives <sup>5</sup>	3
Electives	3

<i>Third Term</i>	<i>Credits</i>
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(Summer Session) HORT/VIT ENOL 399, FS/VIT ENOL 496, or FS 401	2
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### **Fourth Year**

<i>First Term</i>	<i>Credits</i>
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FS/VIT ENOL 465	3
HORT 418 [M]	3
HORT/VIT ENOL 409	1
HORT/VIT ENOL 435	3
Specialization Electives <sup>5</sup>	3
Electives	2 or 3

<i>Second Term</i>	<i>Credits</i>
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HORT 416 <sup>6</sup>	3
VIT ENOL 422	3
VIT ENOL 433 [CAPS] [M]	3
VIT ENOL/HORT 440	3
Specialization Electives <sup>5</sup>	3

### **Footnotes**

<sup>1</sup> MATH 106 is recommended.

<sup>2</sup> COM 102 or H D 205 recommended.

<sup>3</sup> MBIOS 305 can be taken as an alternative to MBIOS 101.

<sup>4</sup> PL P 429 can be taken as an alternative, but PL P 300 is recommended. PL P 300 is offered Even Years – Fall.

<sup>5</sup> Specialization Electives (9 credits): Approved courses include HBM 350, 358; HORT 102\*, 202\*, 310, 320, 421, 495, 499; MATH 106\*, 140; MBIOS 301, 306; MKTG 360; PHYSICS 101; SOE 322; SOIL SCI 302 [M], 374, 441, 468, or as approved by advisor. \*Recommended.

<sup>6</sup> CROP SCI 411 [M] can be taken in the fall as an alternative to HORT 416.