

# Equity and Justice UCORE: Summary of Catalog Updates

College of Veterinary Medicine (no. 1)

Faculty Senate approved January 19, 2023

Summary of Catalog Updates for:

**Molecular Biosciences; Neurosciences**

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 College of Veterinary Medicine will require all 7 Ways of Knowing designations (ARTS, BSCI, DIVR, EQJS, HUM, PSCI, and SSCI). The other UCORE designations 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>Molecular Biosciences</b></p>	<p><b>Biochemistry – Biophysics Option (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>BIOLOGY 106 [BSCI] or 107 [BSCI] <span style="float: right;">4</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>MATH 106 (accelerated) or Elective<sup>1</sup> <span style="float: right;">3</span></p> <p>MATH 108 (accelerated) or Elective<sup>1</sup> <span style="float: right;">2</span></p> <p><i>Second Term</i> <span style="float: right;"><i>Credits</i></span></p> <p>BIOLOGY 106 or 107 <span style="float: right;">4</span></p> <p>CHEM 106 <span style="float: right;">4</span></p> <p>HISTORY 105 [ROOT] <span style="float: right;">3</span></p> <p>MATH 171 [QUAN] <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>CHEM 345 <span style="float: right;">4</span></p> <p>MATH 172 <span style="float: right;">4</span></p> <p>MBIOS 201 [COMM] <span style="float: right;">3</span></p> <p>MBIOS 301 <span style="float: right;">4</span></p>

<i>Second Term</i>	<i>Credits</i>
CHEM 348	4
MBIOS 303	4
PHYSICS 201	3
PHYSICS 211	1
Social Sciences [SSCI]	3
Complete Writing Portfolio	

**Third Year**

<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
Humanities [HUM]	3
PHYSICS 202	3
PHYSICS 212	1
MBIOS 305	3

<i>Second Term</i>	<i>Credits</i>
CHEM 347	3
Diversity [DIVR]	3
MBIOS 304	3
MBIOS 401	3
MBIOS 465	3

**Fourth Year**

<i>First Term</i>	<i>Credits</i>
CHEM 220	2
CHEM 222	2
MBIOS 413	3
MBIOS 466 or PHYSICS 466	3

**Electives** **3**

**Equity and Justice [EQJS]** **3**

<i>Second Term</i>	<i>Credits</i>
MBIOS 414	3
MBIOS 454 [M]	3
MBIOS 494 [M] [CAPS]	3
Electives	9
Exit Survey	

**Footnotes**

<sup>1</sup> If required - consult advisor.

## Biochemistry – Molecular Biology Option (120 Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI] or 107 [BSCI]	4
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG] or Elective	3
MATH 106 (accelerated) or Elective <sup>1</sup>	3
MATH 108 (accelerated) or Elective <sup>1</sup>	2

<i>Second Term</i>	<i>Credits</i>
BIOLOGY 106 or 107	4
CHEM 106	4
HISTORY 105 [ROOT]	3
MATH 140 [QUAN] or 171 [QUAN]	4

### Second Year

<i>First Term</i>	<i>Credits</i>
CHEM 345	4
MBIOS 201 [COMM]	3
MBIOS 301	4
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1

<i>Second Term</i>	<i>Credits</i>
CHEM 348	4
MBIOS 303	4
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Social Sciences [SSCI]	3
Complete Writing Portfolio	

### Third Year

<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
Humanities [HUM]	3
MBIOS 305	3
STAT 212 or 412	3 or 4

Electives	3
<i>Second Term</i>	
Diversity [DIVR]	3
MBIOS 304	3
MBIOS 401	3
MBIOS 465	3
Electives	3
<b>Fourth Year</b>	
<i>First Term</i>	
MBIOS 404	3
MBIOS 413	3
<b>Equity and Justice [EQJS]</b>	<b>3</b>
Electives	<b>8-5</b>
<i>Second Term</i>	
MBIOS 414	3
MBIOS 454 [M]	3
MBIOS 494 [M] [CAPS]	3
Lecture Elective <sup>2</sup>	3
Electives	3
Exit Survey	

**Footnotes**

<sup>1</sup> If required - consult advisor.

<sup>2</sup> Lecture elective: select one from MBIOS 410, 423, 426, 440, 442, 450, 466, 478; PHYSICS 466.

**Biochemistry – Accelerated Pre–Pharmacy Option (133  
136 Credits)**

**First Year**

<i>First Term</i>	
BIOLOGY 106 [BSCI]	4
CHEM 105 [PSCI]	4
ECONS 101 [SSCI]	3
ENGLISH 101 [WRTG]	3
PSYCH 105	3

	<i>Second Term</i>	<i>Credits</i>
	BIOLOGY 107	4
	CHEM 106	4
	HISTORY 105 [ROOT]	3
	MATH 140 [QUAN] or 171 [QUAN]	4
	<i>Third Term</i>	<i>Credits</i>
	(Summer) PHYSICS 101 or 201	3
	(Summer) PHYSICS 111 or 211	1
	<b>Second Year</b>	
	<i>First Term</i>	<i>Credits</i>
	CHEM 345	4
	Communication [COMM]	3
	MBIOS 301	4
	PHYSICS 102 or 202	3
	PHYSICS 112 or 212	1
	<i>Second Term</i>	<i>Credits</i>
	CHEM 348	4
	MBIOS 303	4
	MBIOS 304	3
	PHIL 103 [HUM] or 365 [HUM]	3
	<b>Equity and Justice [EQJS]</b>	<b>3</b>
	Complete Writing Portfolio	
	<i>Third Term</i>	<i>Credits</i>
	(Summer) MBIOS 305	3
	<b>Third Year</b>	
	<i>First Term</i>	<i>Credits</i>
	Arts [ARTS]	3
	BIOLOGY 315	4
	MBIOS 413	3
	MBIOS 454 [M]	3
	STAT 212 or 412	3 or 4
	<i>Second Term</i>	<i>Credits</i>
	ENGLISH 302 or 402	3
	MBIOS 401	3
	MBIOS 414	3
	MBIOS 494 [M] [CAPS]	3

NEUROSCI 425	3
NEUROSCI 426	1
<i>Third Term</i>	<i>Credits</i>
(Summer) Diversity [DIVR]	3
<b>Fourth Year</b>	
<i>First Term</i>	<i>Credits</i>
PHARMACY and PHARDSCI coursework <sup>1</sup>	15
<i>Second Term</i>	<i>Credits</i>
PHARDSCI 519 <sup>2</sup>	3
Additional PHARMACY and PHARDSCI coursework <sup>1</sup>	12
Exit Survey	

#### Footnotes

<sup>1</sup> Additional (required) first-year PharmD courses satisfy the Biochemistry elective requirement of the B.S. in Biochemistry. Students must complete a minimum of 30 semester hours of credit in 500-level PHARMACY and PHARDSCI courses, while pursuing the subsequent PharmD degree in order to complete the requirements for the accelerated bachelor's degree.

<sup>2</sup> Satisfies the Laboratory Elective for the B.S. in Biochemistry.

## Genetics and Cell Biology – Molecular Biology Option (120 Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI] or 107 [BSCI]	4
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
MATH 106 (accelerated) or Elective <sup>1</sup>	3
MATH 108 (accelerated) or Elective <sup>1</sup>	2

<i>Second Term</i>	<i>Credits</i>
BIOLOGY 106 or 107	4
CHEM 106	4
HISTORY 105 [ROOT]	3
MATH 140 [QUAN] or 171 [QUAN]	4

### Second Year

<i>First Term</i>	<i>Credits</i>
CHEM 345 <sup>2</sup>	4
Humanities [HUM]	3
MBIOS 301	4
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1
<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
MBIOS 303	4
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Social Sciences [SSCI]	3
Complete Writing Portfolio	
<b>Third Year</b>	
<i>First Term</i>	<i>Credits</i>
MBIOS 201 [COMM]	3
MBIOS 304	3
MBIOS 305	3
STAT 212 or 412	3 or 4
Electives	3
<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
Lecture Elective <sup>3</sup>	3
MBIOS 401	3
Electives	4
<b>Fourth Year</b>	
<i>First Term</i>	<i>Credits</i>
MBIOS 404	3
MBIOS 423	3
MBIOS 478	3
<u>Equity and Justice [EQJS]</u>	<u>3</u>
Electives	<u>6-3</u>
<i>Second Term</i>	<i>Credits</i>
MBIOS 402 [M]	3
MBIOS 442 or BIOLOGY 476	3
MBIOS 494 [M] [CAPS]	3
Electives	8

Exit Survey

**Footnotes**

<sup>1</sup> If required - consult advisor.

<sup>2</sup> CHEM 345 and 348 recommended for professional or graduate degrees.

<sup>3</sup> Lecture elective: select one from BIOLOGY 420, 475, 476; MBIOS 410, 413, 426, 440, 442, 450, 503.

**Microbiology – Medical Technology Option (120 Credits)**

**First Year**

<i>First Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI] or 107 [BSCI]	4
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
MATH 106 (accelerated) or Elective <sup>1</sup>	3
MATH 108 (accelerated) or Elective <sup>1</sup>	2

<i>Second Term</i>	<i>Credits</i>
BIOLOGY 106 or 107	4
CHEM 106	4
HISTORY 105 [ROOT]	3
MATH 140 [QUAN] or 171 [QUAN]	4

**Second Year**

<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
CHEM 345 <sup>2</sup>	4
Humanities [HUM]	3
MBIOS 301	4

<i>Second Term</i>	<i>Credits</i>
MBIOS 303	4
MBIOS 305	3
Social Sciences [SSCI]	3

**Electives** **3**

**Equity and Justice [EQJS]** **3**

Complete Writing Portfolio



### **Third Year**

<i>First Term</i>	<i>Credits</i>
Communication [COMM] or Written Communication [WRTG]	3
MBIOS 304	3
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1
STAT 212 or 412	3 or 4
Electives	3

<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
MBIOS 410	3
MBIOS 450	3
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Electives	3

### **Fourth Year**

<i>First Term</i>	<i>Credits</i>
BIOLOGY 418	4
MBIOS 404	3
MBIOS 430 [M]	3
MBIOS 440	3
Electives	3

<i>Second Term</i>	<i>Credits</i>
MBIOS 411 [M]	3
MBIOS 442	3
MBIOS 494 [M] [CAPS]	3
Electives	5
Exit Survey	

#### **Footnotes**

<sup>1</sup> If required - consult advisor.

<sup>2</sup> CHEM 345 and 348 recommended for professional or graduate degrees.

**Microbiology – Molecular Biology Option (120 Credits)**

<b>First Year</b>	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 106 [BSCI] or 107 [BSCI]	4
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
MATH 106 (accelerated) or Elective <sup>1</sup>	3
MATH 108 (accelerated) or Elective <sup>1</sup>	2
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 106 or 107	4
CHEM 106	4
HISTORY 105 [ROOT]	3
MATH 140 [QUAN] or 171 [QUAN]	4
<b>Second Year</b>	
<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
CHEM 345 <sup>2</sup>	4
Humanities [HUM]	3
MBIOS 301	4
<i>Second Term</i>	<i>Credits</i>
MBIOS 303	4
MBIOS 305	3
Social Sciences [SSCI]	3
Electives	<del>4</del> 3
Complete Writing Portfolio	
<b>Third Year</b>	
<i>First Term</i>	<i>Credits</i>
MBIOS 201 [COMM]	3
MBIOS 304	3
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1
STAT 212 or 412	3 or 4
<u>Electives</u>	<u>2</u>
<u>Equity and Justice [EQJS]</u>	<u>3</u>
<i>Second Term</i>	<i>Credits</i>
Diversity [DIVR]	3
MBIOS 410	3

	<p>           MBIOS 450 3            PHYSICS 102 or 202 3            PHYSICS 112 or 212 1            Electives 3    <b>Fourth Year</b>    <i>First Term</i> <span style="float: right;"><i>Credits</i></span>            Lecture Elective<sup>3</sup> 3            MBIOS 404 3            MBIOS 430 [M] or 411 [M] 3            MBIOS 440 3            Electives 3    <i>Second Term</i> <span style="float: right;"><i>Credits</i></span>            MBIOS 442 3            MBIOS 494 [M] [CAPS] 3            Electives 9            Exit Survey    <b>Footnotes</b>  <sup>1</sup> If required - consult advisor.  <sup>2</sup> CHEM 345 and 348 recommended for professional or graduate degrees.  <sup>3</sup> Lecture elective: select one from MBIOS 342, 401, 413, 426, 446; BIOLOGY 418, ENTOM 343, FS 416.         </p>
<b>Neurosciences</b>	<p> <b>Biomedical Business Option (120 Credits)</b>    <b>First Year</b>    <i>First Term</i> <span style="float: right;"><i>Credits</i></span>            CHEM 105 [PSCI] 4            ENGLISH 101 [WRTG] 3            MATH 140 [QUAN] or 171 [QUAN] 4            NEUROSCI 105 [BSCI] 3            PSYCH 105 [SSCI] 3    <i>Second Term</i> <span style="float: right;"><i>Credits</i></span>            BIOLOGY 107 4            CHEM 106 4            Communication [COMM] or Written Communication [WRTG]<sup>1</sup> 3            HISTORY 105 [ROOT] 3         </p>

<b>Second Year</b>	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 106	4
CHEM 345	4
NEUROSCI 301 <sup>2</sup>	3
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1
<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
Diversity [DIVR]	3
NEUROSCI 302	3
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Neuroscience Elective <sup>3</sup>	3
Complete Writing Portfolio	
<b>Third Year</b>	
<i>First Term</i>	<i>Credits</i>
BIOLOGY/MBIOS 301	4
Humanities [HUM]	3
Behavior Course <sup>4</sup>	3
Statistics Course <sup>5</sup>	3 or 4
<i>Second Term</i>	<i>Credits</i>
ENTRP 490	3
MBIOS 303	4
NEUROSCI 404	4
Biomedical Business Elective <sup>6</sup>	3
<b>Fourth Year</b>	
<i>First Term</i>	<i>Credits</i>
ENTRP 426	3
ENTRP 485	3
NEUROSCI 430 [M]	4
<b>Equity and Justice [EQJS]</b>	<b>3</b>
<b>Electives<sup>7</sup></b>	<b>63</b>
<i>Second Term</i>	<i>Credits</i>
ENTRP 486	3
NEUROSCI 403 [M]	3

NEUROSCI 490 [CAPS]	3
Electives <sup>7</sup>	6

### Footnotes

- <sup>1</sup> NEUROSCI/MBIOS 201 is recommended.
- <sup>2</sup> PSYCH 372 may be taken in place of NEUROSCI 301 with department permission.
- <sup>3</sup> Neuroscience Electives (minimum 3 credits): Approved courses include BIOLOGY 307, 315, 321, 333, 340, 352, 353, 354, 438, 456; MATH 340; MBIOS 304, 305, 401, 404, 413; NEUROSCI 305, 333, 409, 425, 426; PHYSICS 466; PSYCH 265, 312, 333, 350, 361, 372, 384, 464, 470, 490, 491; VET PH 308. Other courses may be allowed by department consent. Courses may not be used to fulfill more than one requirement. Please see your advisor.
- <sup>4</sup> Choose one course from: NEUROSCI 305, 333, or 409. Other courses may be allowed by department consent.
- <sup>5</sup> Choose one course from: PSYCH 311, STAT 212, 360, 370, or 412.
- <sup>6</sup> Biomedical Business Electives (minimum 3 credits): Approved courses include ENTRP 489, MGMT 301, MGMT 401, MGMT 483. Other courses may be allowed by department consent. Please see your advisor.
- <sup>7</sup> Elective choices should include 300-400 level coursework to meet the University minimum requirement of 40 upper-division credits.

## Computational Breadth of Field Option (~~124~~ **127** Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
HISTORY 105 [ROOT]	3
MATH 171 [QUAN]	4
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107 [BSCI]	4
CHEM 106	4
CPT S 121	4
MATH 172	4

### Second Year

<i>First Term</i>	<i>Credits</i>
BIOLOGY 106	4
MATH 273	2
NEUROSCI 301 <sup>1</sup>	3
PHYSICS 201	3
PHYSICS 211	1
PSYCH 105 [SSCI]	3
<i>Second Term</i>	<i>Credits</i>
CHEM 345	4
CPT S 122	4
Humanities [HUM]	3
NEUROSCI 302	3
PHYSICS 202	3
PHYSICS 212	1
Complete Writing Portfolio	
<b>Third Year</b>	
<i>First Term</i>	<i>Credits</i>
Diversity [DIVR]	3
E E 214	4
MATH 216	3
MATH 220	2
MBIOS / BIOLOGY 301	4
<i>Second Term</i>	<i>Credits</i>
Communication [COMM] or Written Communication [WRTG] <sup>2</sup>	3
MATH 315	3
NEUROSCI 404	4
Computational Neuroscience Electives <sup>3</sup>	3
<b>Equity and Justice [EQJS]</b>	<b>3</b>
<b>Fourth Year</b>	
<i>First Term</i>	<i>Credits</i>
E E 261	3
E E 262	1
NEUROSCI 425	3
NEUROSCI 426	1
NEUROSCI 430 [M]	4
Computational Neuroscience Electives <sup>3</sup>	3
<i>Second Term</i>	<i>Credits</i>

BIO ENG 340	4
NEUROSCI 403 [M]	3
NEUROSCI 490 [CAPS]	3
Computational Neuroscience Electives <sup>3</sup>	3

### Footnotes

<sup>1</sup> PSYCH 372 may be taken in place of NEUROSCI 301 with department permission.

<sup>2</sup> Professional or Technical Writing is recommended (e.g. ENGLISH 201 or 402)

<sup>3</sup> Computational Neuroscience Electives (the Breadth of Field emphasis requires a minimum of 9 credits): At least 3 credits must be 300-400-level E E or CPT S courses. Approved courses include BIOLOGY 315, 321, 340, 438, 456; BIO ENG 481; CPT S 322, 434, 440, 443; E E 311, 321, 324, 341, 451, 464; MBIOS 303, 305, 401, 404, 413, 478; NEUROSCI 305, 333, 409; Psych 470, 490, 491; PHYSICS 466. Courses may not be used to fulfill more than one requirement. Other courses may be allowed by department consent. Please consult your advisor.

## Computational Hardware Option (124-127 Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
HISTORY 105 [ROOT]	3
MATH 171 [QUAN]	4

<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107 [BSCI]	4
CHEM 106	4
CPT S 121	4
MATH 172	4

### Second Year

<i>First Term</i>	<i>Credits</i>
BIOLOGY 106	4
MATH 273	2
NEUROSCI 301 <sup>1</sup>	3
PHYSICS 201	3
PHYSICS 211	1
PSYCH 105 [SSCI]	3

	<i>Second Term</i>	<i>Credits</i>
	CHEM 345	4
	CPT S 122	4
	Humanities [HUM]	3
	NEUROSCI 302	3
	PHYSICS 202	3
	PHYSICS 212	1
	Complete Writing Portfolio	
	<b>Third Year</b>	
	<i>First Term</i>	<i>Credits</i>
	BIOLOGY / MBIOS 301	4
	Communication [COMM] or Written Communication [WRTG] <sup>2</sup>	3
	E E 214	4
	MATH 216	3
	MATH 220	2
	<i>Second Term</i>	<i>Credits</i>
	Diversity [DIVR]	3
	MATH 315	3
	NEUROSCI 404	4
	Computational Neuroscience Electives <sup>3</sup>	3
	<u>Equity and Justice [EQJS]</u>	<u>3</u>
	<b>Fourth Year</b>	
	<i>First Term</i>	<i>Credits</i>
	E E 234	4
	E E 261	3
	E E 262	1
	NEUROSCI 425	3
	NEUROSCI 426	1
	NEUROSCI 430 [M]	4
	<i>Second Term</i>	<i>Credits</i>
	E E 324 [M]	4
	NEUROSCI 403 [M]	3
	NEUROSCI 490 [CAPS]	3
	Computational Neuroscience Electives <sup>3</sup>	2



### Footnotes

<sup>1</sup> PSYCH 372 may be taken in place of NEUROSCI 301 with department permission.

<sup>2</sup> Professional or Technical Writing is recommended (e.g. ENGLISH 201 or 402)

<sup>3</sup> Computational Neuroscience Electives (the Hardware emphasis requires a minimum of 5 credits): At least 3 credits must be 300-400-level E E or CPT S courses. Approved courses include BIOLOGY 315, 321, 340, 438, 456; BIO ENG 481; CPT S 322, 434, 440, 443; E E 311, 321, 324, 341, 451, 464; MBIOS 303, 305, 401, 404, 413, 478; NEUROSCI 305, 333, 409; Psych 470, 490, 491; PHYSICS 466. Courses may not be used to fulfill more than one requirement. Other courses may be allowed by department consent. Please consult your advisor.

## Computational Software Option (~~120~~ 123 Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
Arts [ARTS]	3
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
HISTORY 105 [ROOT]	3
MATH 171 [QUAN]	4
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107 [BSCI]	4
CHEM 106	4
CPT S 121	4
MATH 172	4

### Second Year

<i>First Term</i>	<i>Credits</i>
BIOLOGY 106	4
NEUROSCI 301 <sup>1</sup>	3
PHYSICS 201/211 or 205	4
PSYCH 105 [SSCI]	3
<u>Equity and Justice [EQJS]</u>	<u>3</u>
<i>Second Term</i>	<i>Credits</i>
CHEM 345	4
CPT S 122	4
NEUROSCI 302	3
PHYSICS 202/212 or 206	4

## Complete Writing Portfolio

### Third Year

<i>First Term</i>	<i>Credits</i>
Communication [COMM] or Written Communication [WRTG] <sup>2</sup>	3
E E 214	4
Humanities [HUM]	3
MATH 216	3
MBIOS 301	4
<i>Second Term</i>	<i>Credits</i>
CPT S 223	3
Diversity [DIVR]	3
NEUROSCI 404	4
PSYCH 490	3

### Fourth Year

<i>First Term</i>	<i>Credits</i>
CPT S 224	2
CPT S 440	3
NEUROSCI 425	3
NEUROSCI 426	1
NEUROSCI 430 [M]	4
<i>Second Term</i>	<i>Credits</i>
CPT S 322	3
NEUROSCI 403 [M]	3
NEUROSCI 490 [CAPS]	3
Computational Neuroscience Electives <sup>3</sup>	6

### Footnotes

<sup>1</sup> PSYCH 372 may be taken in place of NEUROSCI 301 with department permission.

<sup>2</sup> Professional or Technical Writing is recommended (e.g. ENGLISH 201 or 402)

<sup>3</sup> Computational Neuroscience Electives (the Software emphasis requires a minimum of 6 credits): At least 3 credits must be 300-400-level E E or CPT S courses. Approved courses include BIOLOGY 315, 321, 340, 438, 456; BIO ENG 481; CPT S 322, 434, 440, 443; E E 311, 321, 324, 341, 451, 464; MBIOS 303, 305, 401, 404, 413, 478; NEUROSCI 305, 333, 409; Psych 470, 490, 491; PHYSICS 466. Courses may not be used to fulfill more than one requirement. Other courses may be allowed by department consent. Please consult your advisor.

## General Option (120 Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
MATH 140 [QUAN] or 171 [QUAN]	4
PSYCH 105 [SSCI]	3

<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107 [BSCI]	4
CHEM 106	4
Communication [COMM] or Written Communication [WRTG] <sup>1</sup>	3
HISTORY 105 [ROOT]	3

### Second Year

<i>First Term</i>	<i>Credits</i>
BIOLOGY 106	4
CHEM 345	4
NEUROSCI 301 <sup>2</sup>	3
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1

<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
Diversity [DIVR]	3
NEUROSCI 302	3
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Neuroscience Electives <sup>3</sup>	4
Complete Writing Portfolio	

### Third Year

<i>First Term</i>	<i>Credits</i>
Behavior Course <sup>4</sup>	3 or 4
BIOLOGY/MBIOS 301	4
Statistics Course <sup>5</sup>	3 or 4
Neuroscience Electives <sup>3</sup>	5

<i>Second Term</i>	<i>Credits</i>
Humanities [HUM]	3

NEUROSCI 404	4
Electives <sup>6</sup>	8
<b>Fourth Year</b>	
<i>First Term</i>	<i>Credits</i>
NEUROSCI 430 [M]	4
<b>Equity and Justice [EQJS]</b>	<b>3</b>
<b>Electives <sup>6</sup></b>	<b>118</b>
<i>Second Term</i>	<i>Credits</i>
NEUROSCI 403 [M]	3
NEUROSCI 490 [CAPS]	3
Electives <sup>6</sup>	9

### Footnotes

<sup>1</sup> NEUROSCI/MBIOS 201 is recommended.

<sup>2</sup> PSYCH 372 may be taken in place of NEUROSCI 301 with department permission.

<sup>3</sup> Neuroscience Electives (9 credits): Approved courses include BIOLOGY 307, 315, 321, 333, 340, 352, 353, 354, 438, 456; MATH 340; MBIOS 303, 304, 305, 401, 404, 413; NEUROSCI 305, 333, 409, 425, 426; PHYSICS 466; PSYCH 265, 312, 333, 350, 361, 372, 384, 464, 470, 490, 491; VET PH 308. Other courses may be allowed by department consent. Courses may not be used to fulfill more than one requirement. Please see your advisor.

<sup>4</sup> Behavior Course: Choose one course from NEUROSCI 305, 333, or 409. Other courses may be allowed by department consent.

<sup>5</sup> Statistics Course: Choose one course from PSYCH 311, STAT 212, 360, 370, or 412.

<sup>6</sup> Elective choices should include 300-400 level coursework to meet the University minimum requirement of 40 upper division credits.

## Pre-Medical and Pre-Dental Option (120 Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
MATH 140 [QUAN] or 171 [QUAN]	4
PSYCH 105 [SSCI]	3
<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107 [BSCI]	4

CHEM 106	4
Communication [COMM] or Written Communication [WRTG] <sup>1</sup>	3
HISTORY 105 [ROOT]	3
<b>Second Year</b>	
<i>First Term</i>	<i>Credits</i>
BIOLOGY 106	4
CHEM 345	4
NEUROSCI 301 <sup>2</sup>	3
PHYSICS 101 or 201	3
PHYSICS 111 or 211	1
<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
CHEM 348	4
Diversity [DIVR]	3
NEUROSCI 302	3
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Complete Writing Portfolio	
<b>Third Year</b>	
<i>First Term</i>	<i>Credits</i>
Behavior Course <sup>3</sup>	3 or 4
MBIOS 303	4
Statistics Course <sup>4</sup>	3 or 4
Neuroscience Electives <sup>5</sup>	5
<i>Second Term</i>	<i>Credits</i>
BIOLOGY/MBIOS 301	4
Humanities [HUM]	3
NEUROSCI 404	4
Electives <sup>6</sup>	4
<b>Fourth Year</b>	
<i>First Term</i>	<i>Credits</i>
NEUROSCI 430 [M]	4
<b>Equity and Justice [EQJS]</b>	<b>3</b>
<b>Electives<sup>6</sup></b>	<b>118</b>
<i>Second Term</i>	<i>Credits</i>
NEUROSCI 403 [M]	3

NEUROSCI 490 [CAPS]	3
Electives <sup>6</sup>	9

### Footnotes

- <sup>1</sup> NEUROSCI/MBIOS 201 is recommended.
- <sup>2</sup> PSYCH 372 may be taken in place of NEUROSCI 301 with department permission.
- <sup>3</sup> Behavior Course: Choose one course from NEUROSCI 305, 333, or 409. Other courses may be allowed by department consent.
- <sup>4</sup> Statistics Course: Choose one course from PSYCH 311, STAT 212, 360, 370, or 412.
- <sup>5</sup> Neuroscience Electives (5 credits): Approved courses include BIOLOGY 307, 315, 321, 333, 340, 352, 353, 354, 438, 456; MATH 340; MBIOS 304, 305, 401, 404, 413; NEUROSCI 305, 333, 409, 425, 426; PHYSICS 466; PSYCH 265, 312, 333, 350, 361, 372, 384, 464, 470, 490, 491; VET PH 308. Courses may not be used to fulfill more than one requirement. Other courses may be allowed by department consent. Please see your advisor.
- <sup>6</sup> Electives: Consult your advisor regarding elective courses that may be required or recommended for admission into your future health-professions program.

## Pre-Veterinary Option (120 Credits)

### First Year

<i>First Term</i>	<i>Credits</i>
CHEM 105 [PSCI]	4
ENGLISH 101 [WRTG]	3
MATH 140 [QUAN] or 171 [QUAN]	4
PSYCH 105 [SSCI]	3

<i>Second Term</i>	<i>Credits</i>
BIOLOGY 107 [BSCI]	4
CHEM 106	4
Communication [COMM] or Written Communication [WRTG] <sup>1</sup>	3
HISTORY 105 [ROOT]	3

### Second Year

<i>First Term</i>	<i>Credits</i>
BIOLOGY 106	4
CHEM 345	4
NEUROSCI 301 <sup>2</sup>	3

PHYSICS 101 or 201	3
PHYSICS 111 or 211	1
<i>Second Term</i>	<i>Credits</i>
BIOLOGY/MBIOS 301	4
Diversity [DIVR]	3
NEUROSCI 302	3
PHYSICS 102 or 202	3
PHYSICS 112 or 212	1
Complete Writing Portfolio	
<b>Third Year</b>	
<i>First Term</i>	<i>Credits</i>
Behavior Course <sup>3</sup>	3 or 4
MBIOS 303	4
Statistics Course <sup>4</sup>	3 or 4
Neuroscience Electives <sup>5</sup>	5
<i>Second Term</i>	<i>Credits</i>
Arts [ARTS]	3
Humanities [HUM]	3
NEUROSCI 404	4
Electives <sup>6</sup>	7
<b>Fourth Year</b>	
<i>First Term</i>	<i>Credits</i>
NEUROSCI 430 [M]	4
<b>Equity and Justice [EQJS]</b>	<b>3</b>
<b>Electives<sup>6</sup></b>	<b>129</b>
<i>Second Term</i>	<i>Credits</i>
NEUROSCI 403 [M]	3
NEUROSCI 490 [CAPS]	3
Electives <sup>6</sup>	9

#### Footnotes

<sup>1</sup> NEUROSCI/MBIOS 201 is recommended.

<sup>2</sup> PSYCH 372 may be taken in place of NEUROSCI 301 with department permission.

<sup>3</sup> Behavior Course: Choose one course from NEUROSCI 305, 333, or 409. Other courses may be allowed by department consent.

- <sup>4</sup> Statistics Course: Choose one course from PSYCH 311, STAT 212, 360, 370, or 412.
- <sup>5</sup> Neuroscience Electives (5 credits): Approved courses include BIOLOGY 307, 315, 321, 333, 340, 352, 353, 354, 438, 456; MATH 340; MBIOS 301, 304, 305, 401, 404, 413; NEUROSCI 305, 333, 409, 425, 426; PHYSICS 466; PSYCH 265, 312, 333, 350, 361, 372, 384, 464, 470, 490, 491; VET PH 308. Other courses may be allowed by department consent. Courses may not be used to fulfill more than one requirement. Please consult your advisor.
- <sup>6</sup> Elective choices should include 300-400 level coursework to meet the University minimum requirement of 40 upper division credits. Consult your advisor regarding elective courses that may be required or recommended for admission to a DVM program.