

## Animal Sciences Animal Biology Specialization - Freshman Advising Guide Pre-Professional Curriculum

### Freshman Year - Fall (Year)

| Course Number        | Course Title                  | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites  | Common Alternatives                     |
|----------------------|-------------------------------|-----------|--------|---------|------------|---------|---|---|
| CHM 2045             | General Chemistry 1           | 3         | P      |         | YES        |         | a min. 75% on ALEKS or MAC 1147 (or equivalent) & pass CHM 1025 |   |
| CHM 2045L            | General Chemistry 1 Lab       | 1         | P      |         |            |         | Coreq. CHM 2045   |   |
| ENC 1101             | English Composition 1         | 3         | C      | 6000    | YES        |         |   |   |
| AEB 2014             | Economic Issues, Food and You | 3         | S      |         | ECO 2013   |         |   | ECO 2013 (4) (S) or<br>ECO 2023 (4) (S) |
| IUF 1000             | What is the Good Life         | 3         | H      |         |            | YES     |   |   |
| <b>Total Credits</b> |                               | <b>13</b> |        |         |            |         |   |   |

### Freshman Year - Spring (Year)

| Course Number                  | Course Title   | Credits   | Gen-Ed     | Writing | State Core | UF Core | Pre-Requisites  | Common Alternatives |
|--------------------------------|--|-----------|------------|---------|------------|---------|-----------------|---------------------|
| CHM 2046                       | General Chemistry 2  | 3         | B          |         | YES        |         | CHM 2045        |                     |
| CHM 2046L                      | General Chemistry 2 Lab  | 1         | B          |         |            |         | Coreq. CHM 2046 |                     |
| ENC 1102                       | English Composition 2  | 3         | C          | 6000    | YES        |         | ENC 1101        |                     |
| Gen Ed                         | Social Science - D or N  | 3         | <b>OR</b>  |         |            |         |                 |                     |
| Elective                       | Humanities - D or N  |           | S & D or N |         |            |         |                 |                     |
| (ANS 2005)                     | <i>Suggested: Animals in Human History (H, N)</i>                      | 3         | H & D or N |         |            |         |                 |                     |
| ANS Lecture or<br>Lab Elective | See Approved Elective Listing<br><i>Suggested: The Meat We Eat (B)</i> | 3         |            |         |            |         |                 |                     |
| (ANS 2002)                     |  |           |            |         |            |         |                 |                     |
| <b>Total Credits</b>           |  | <b>13</b> |            |         |            |         |                 |                     |

### Freshman Year - Summer (Year)

| Course Number        | Course Title | Credits  | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites | Common Alternatives |
|----------------------|--------------|----------|--------|---------|------------|---------|----------------|---------------------|
| MAC 2311             | Calculus 1   | 4        |        |         |            |         |                |                     |
| <b>Total Credits</b> |              | <b>4</b> |        |         |            |         |                |                     |



**Sophomore Year - Fall (Year)**

| Course Number        | Course Title                           | Credits   | Gen-Ed     | Writing | State Core | UF Core | Pre-Requisites | Common Alternatives |
|----------------------|--|-----------|------------|---------|------------|---------|----------------|---------------------|
| BSC 2010             | Integrated Principles of Biology 1     | 3         | B          |         | YES        |         |                | SPC 2608            |
| BSC 2010L            | Integrated Principles of Biology Lab 1 | 1         | B          |         |            |         |                |                     |
| AEC 3030C            | Effective Oral Communication           | 3         |            |         |            |         |                |                     |
| ANS 3006             | Introduction to Animal Sciences        | 3         |            |         |            |         |                |                     |
| ANS 3006L            | Introduction to Animal Sciences Lab    | 1         |            |         |            |         |                |                     |
|                      | Social Science - D or N <b>OR</b>      |           | S & D or N |         |            |         |                |                     |
| Elective             | Humanities - D or N                    | 3         | H & D or N |         |            |         |                |                     |
| <b>Total Credits</b> |  | <b>14</b> |            |         |            |         |                |                     |

**Sophomore Year - Spring (Year)**

| Course Number        | Course Title                            | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites | Common Alternatives |
|----------------------|---|-----------|--------|---------|------------|---------|----------------|---------------------|
| BSC 2011             | Intergrated Principles of Biology 2     | 3         |        |         |            |         |                | CHM 2045 & 2045L    |
| BSC 2011L            | Intergrated Principles of Biology 2 Lab | 1         |        |         |            |         |                |                     |
| ANS 3440             | Principles of Animal Nutrition          | 4         |        |         |            |         |                |                     |
| STA 2023             | Introduction to Statistics 1            | 3         | M      |         | YES        |         |                |                     |
|                      | Social Science - WR (6) <b>OR</b>       |           | S or   | 6       |            |         |                |                     |
| Elective             | Humanities - WR (6)                     | 3         | H      |         |            |         |                |                     |
| <b>Total Credits</b> |   | <b>14</b> |        |         |            |         |                |                     |

**Sophomore Year - Summer (Year)**

| Course Number        | Course Title | Credits | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites | Common Alternatives |
|----------------------|--------------|---------|--------|---------|------------|---------|----------------|---------------------|
| <b>Total Credits</b> |              |         |        |         |            |         |                |                     |

**Junior Year - Fall (Year)**

| Course Number               | Course Title  | Credits   | Gen-Ed | Writing | State Core                   | UF Core | Pre-Requisites            | Common Alternatives  |
|-----------------------------|---|-----------|--------|---------|------------------------------|---------|---------------------------|----------------------|
| CHM 2210                    | Organic Chemistry 1   | 3         |        |         |                              |         | CHM 2046 & 2046L          |                      |
|                             | Reproductive Physiology & Endocrinology in                  |           |        |         |                              |         | ANS 3006 & 3006L          |                      |
| ANS 3319C                   | Domestic Animals  | 4         |        |         |                              |         | BSC 2010 & 2010L          |                      |
| AEC 3033C                   | Research & Business Writing in Agricultural & Life Sciences | 3         |        |         | ENC 2210<br>6000<br>ENC 3254 |         | Junior or Senior Standing | ENC 2210<br>ENC 3254 |
| ANS Lecture or Lab Elective | See Approved Elective Listing                               | 3         |        |         |                              |         |                           |                      |
| Elective                    |   | 3         | M      |         | YES                          |         |                           |                      |
| <b>Total Credits</b>        |   | <b>16</b> |        |         |                              |         |                           |                      |

**Junior Year - Spring (Year)**

| Course Number                           | Course Title   | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites                       | Common Alternatives  |
|---|--|-----------|--------|---------|------------|---------|--------------------------------------|--|
| CHM 2211                                | Organic Chemistry 2  | 3         |        |         |            |         | CHM 2210                             |  |
| CHM 2211L                               | Organic Chemistry 2 Lab                                      | 2         |        |         |            |         | Co-req. CHM 2211                     |  |
| ANS 3043                                | Growth & Development of Farm Animals                         | 3         |        |         |            |         | BSC 2011 & 2011L<br>ANS 3006 & 3006L | ANS 4932 - Animal Physiology<br>APK 2100                               |
| ANS Lecture or Lab Elective (ANS 3384C) | <i>Recommended ANS Lecture Elective: Genetics of Animals</i> | 3         |        |         |            |         | ANS 3006 & 3006L<br>BSC 2011 & 2011L | Alt. for ANS 3384C:<br>PCB 3063 (4 credits) or<br>AGR 3303 (3 credits) |
| Elective                                |  | 3         |        |         |            |         |                                      |  |
| <b>Total Credits</b>                    |  | <b>14</b> |        |         |            |         |                                      |  |

**Junior Year - Summer (Year)**

| Course Number        | Course Title                               | Credits | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites   | Common Alternatives |
|----------------------|--|---------|--------|---------|------------|---------|------------------|---------------------|
| Elective (PHY2053)   | <i>Recommended Elective: Physics 1</i>     | 4       |        |         |            |         |                  |                     |
| Elective (PHY2053 L) | <i>Recommended Elective: Physics 1 Lab</i> | 1       |        |         |            |         | Co-req. PHY 2053 |                     |

Total Credits 5

**Senior Year - Fall (Year)**

| Course Number               | Course Title                                     | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites   | Common Alternatives |
|-----------------------------|--|-----------|--------|---------|------------|---------|------------------|---------------------|
| BCH 4024                    | Introduction to Biochemsitry & Molecular Biology | 4         |        |         |            |         | CHM 2211         |                     |
| ANS Lecture or Lab Elective | See Approved Elective Listing                    | 3         |        |         |            |         |                  |                     |
| Elective (PHY 2054)         | <i>Recommended Elective: Physics 2</i>           | 4         |        |         |            |         | PHY 2053         |                     |
| Elective (PHY 2054L)        | <i>Recommended Elective: Physics 2 Lab</i>       | 1         |        |         |            |         | Co-req. PHY 2054 |                     |
| Elective                    |  | 3         |        |         |            |         |                  |                     |
| <b>Total Credits</b>        |  | <b>15</b> |        |         |            |         |                  |                     |

**Senior Year - Spring (Year)**

| Course Number        | Course Title                        | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites  | Common Alternatives |
|----------------------|-------------------------------------|-----------|--------|---------|------------|---------|---|---------------------|
| MCB 3020             | Basic Biology of Microorganisms     | 3         | B      |         |            |         | CHM 2200 or 2210 & BSC 2010 & 2010L or BSC 2011 & 2011L |                     |
| MCB 3020L            | Basic Biology of Microorganisms Lab | 1         |        |         |            |         | Co-req. MCB 3020  |                     |
| Elective             |                                     | 3         |        |         |            |         |   |                     |
| Elective             |                                     | 3         |        |         |            |         |   |                     |
| Elective             |                                     | 2         |        |         |            |         |   |                     |
| <b>Total Credits</b> |                                     | <b>12</b> |        |         |            |         |   |                     |

## **Notes**

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Although ECO 2013 will meet  
State Core and sub for the  
College requirement, not  
recommended for freshman

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**Total Credits**

**Junior Year - Summer (Year)**

| Course Number | Course Title | Credits | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites | Common Alternatives |
|---------------|--------------|---------|--------|---------|------------|---------|----------------|---------------------|
|               |              |         |        |         |            |         |                |                     |
|               |              |         |        |         |            |         |                |                     |
|               |              |         |        |         |            |         |                |                     |

**Total Credits**

**Senior Year - Fall (Year)**

| Course Number | Course Title | Credits | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites | Common Alternatives |
|---------------|--------------|---------|--------|---------|------------|---------|----------------|---------------------|
|               |              |         |        |         |            |         |                |                     |
|               |              |         |        |         |            |         |                |                     |
|               |              |         |        |         |            |         |                |                     |
|               |              |         |        |         |            |         |                |                     |

**Total Credits**

**Senior Year - Spring (Year)**

| Course Number | Course Title | Credits | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites | Common Alternatives |
|---------------|--------------|---------|--------|---------|------------|---------|----------------|---------------------|
|               |              |         |        |         |            |         |                |                     |
|               |              |         |        |         |            |         |                |                     |
|               |              |         |        |         |            |         |                |                     |
|               |              |         |        |         |            |         |                |                     |
|               |              |         |        |         |            |         |                |                     |

**Total Credits**

## Animal Sciences Animal Biology Specialization - Freshman Advising Guide Pre-Professional Curriculum

### Freshman Year - Fall (Year)

| Course Number        | Course Title                       | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites | Common Alternatives                     |
|----------------------|------------------------------------|-----------|--------|---------|------------|---------|----------------|---|
| ENC 1101             | English Composition 1              | 3         | C      | 6000    | YES        |         |                |   |
| AEB 2014             | Economic Issues, Food and You      | 3         | S      |         | ECO 2013   |         |                | ECO 2013 (4) (S) or<br>ECO 2023 (4) (S) |
| CHM 1025             | Intro to Chemistry                 | 2         |        |         |            |         |                |   |
| MAC 1147             | Precalculus Algebra & Trigonometry | 4         |        |         |            |         |                | MAC 1140 + MAC 1114                     |
| <b>Total Credits</b> |                                    | <b>12</b> |        |         |            |         |                |   |

### Freshman Year - Spring (Year)

| Course Number        | Course Title                                      | Credits   | Gen-Ed     | Writing | State Core | UF Core | Pre-Requisites   | Common Alternatives |
|----------------------|---|-----------|------------|---------|------------|---------|--|---------------------|
| CHM 2045             | General Chemistry 1                               | 3         | P          |         | YES        |         | a min. 75% on ALEKS or MAC 1147 (or equivalent) & pass CHM 1025                |                     |
| CHM 2045L            | General Chemistry 1 Lab                           | 1         | P          |         |            |         | Coreq. CHM 2045  |                     |
| MAC 2311             | Calculus 1  | 4         |            |         |            |         | Min. grade of C on a MAC course numbered 1147 or higher OR a min. 75% on ALEKS |                     |
| Gen Ed               | Social Science - D or N                           |           |            |         |            |         | <b>OR</b>  |                     |
| Elective             | Humanities - D or N                               |           | S & D or N |         |            |         |  |                     |
| (ANS 2005)           | <i>Suggested: Animals in Human History (H, N)</i> | 3         | H & D or N |         |            |         |  |                     |
| IUF 1000             | What is the Good Life                             | 3         | H          |         |            | YES     |  |                     |
| <b>Total Credits</b> |   | <b>11</b> |            |         |            |         |  |                     |

### Freshman Year - Summer (Year)

| Course Number | Course Title            | Credits | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites        | Common Alternatives |
|---------------|-------------------------|---------|--------|---------|------------|---------|-----------------------|---------------------|
| CHM 2046      | General Chemistry 2     | 3       | B      |         | YES        |         | CHM 2045<br>CHM 2045L |                     |
| CHM 2046L     | General Chemistry 2 Lab | 1       | B      |         |            |         | Coreq. CHM 2046       |                     |

Total Credits 4

**Sophomore Year - Fall (Year)**

| Course Number        | Course Title                           | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites   | Common Alternatives |
|----------------------|--|-----------|--------|---------|------------|---------|------------------|---------------------|
| BSC 2010             | Integrated Principles of Biology 1     | 3         | B      |         | YES        |         |                  |                     |
| BSC 2010L            | Integrated Principles of Biology Lab 1 | 1         | B      |         |            |         | Co-req. BSC 2010 |                     |
| ANS 3006             | Introduction to Animal Sciences        | 3         |        |         |            |         |                  |                     |
| ANS 3006L            | Introduction to Animal Sciences        | 1         |        |         |            |         |                  |                     |
| AEC 3030C            | Effective Oral Communication           | 3         |        |         |            |         |                  | SPC 2608            |
| Gen Ed               | Social Science - WR (6) <b>OR</b>      |           | S or   |         |            |         |                  |                     |
| Elective             | Humanities - WR (6)                    | 3         | H      | 6       |            |         |                  |                     |
| <b>Total Credits</b> |  | <b>14</b> |        |         |            |         |                  |                     |

**Sophomore Year - Spring (Year)**

| Course Number        | Course Title                            | Credits   | Gen-Ed     | Writing | State Core | UF Core | Pre-Requisites   | Common Alternatives |
|----------------------|---|-----------|------------|---------|------------|---------|------------------|---------------------|
| BSC 2011             | Intergrated Principles of Biology 2     | 3         |            |         |            |         | BSC 2010         |                     |
| BSC 2011L            | Intergrated Principles of Biology 2 Lab | 1         |            |         |            |         | Co-req. BSC 2011 |                     |
| ANS 3440             | Principles of Animal Nutrition          | 4         |            |         |            |         | CHM 2045 & 2045L |                     |
| Gen Ed               | Social Science - D or N <b>OR</b>       |           | S & D or N |         |            |         |                  |                     |
| Elective             | Humanities - D or N                     | 3         | H & D or N |         |            |         |                  |                     |
| ENC 1102             | English Composition 2                   | 3         | C          | 6000    | YES        |         | ENC 1101         |                     |
| <b>Total Credits</b> |   | <b>14</b> |            |         |            |         |                  |                     |

**Sophomore Year - Summer (Year)**

| Course Number        | Course Title | Credits | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites | Common Alternatives |
|----------------------|--------------|---------|--------|---------|------------|---------|----------------|---------------------|
| <b>Total Credits</b> |              |         |        |         |            |         |                |                     |



**Junior Year - Fall (Year)**

| Course Number               | Course Title  | Credits   | Gen-Ed | Writing | State Core           | UF Core | Pre-Requisites            | Common Alternatives  |
|-----------------------------|---|-----------|--------|---------|----------------------|---------|---------------------------|----------------------|
| CHM 2210                    | Organic Chemistry 1   | 3         |        |         |                      |         | CHM 2046 & 2046L          |                      |
|                             | Reproductive Physiology & Endocrinology in                  |           |        |         |                      |         | ANS 3006 & 3006L          |                      |
| ANS 3319C                   | Domestic Animals  | 4         |        |         |                      |         | BSC 2010 & 2010L          |                      |
| AEC 3033C                   | Research & Business Writing in Agricultural & Life Sciences | 3         |        | 6000    | ENC 2210<br>ENC 3254 |         | Junior or Senior Standing | ENC 2210<br>ENC 3254 |
| ANS Lecture or Lab Elective | See Approved Elective Listing                               | 3         |        |         |                      |         |                           |                      |
| STA 2023                    | Introduction to Statistics 1                                | 3         | M      |         | YES                  |         |                           |                      |
| <b>Total Credits</b>        |   | <b>16</b> |        |         |                      |         |                           |                      |

**Junior Year - Spring (Year)**

| Course Number                           | Course Title   | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites                       | Common Alternatives  |
|---|--|-----------|--------|---------|------------|---------|--------------------------------------|--|
| CHM 2211                                | Organic Chemistry 2  | 3         |        |         |            |         | CHM 2210                             |  |
| CHM 2211L                               | Organic Chemistry 2 Lab                                      | 2         |        |         |            |         | Co-req. CHM 2211                     |  |
| ANS 3043                                | Growth & Development of Farm Animals                         | 3         |        |         |            |         | BSC 2011 & 2011L<br>ANS 3006 & 3006L | ANS 4932 - Animal Physiology<br>APK 2100C                              |
| ANS Lecture or Lab Elective (ANS 3384C) | <i>Recommended ANS Lecture Elective: Genetics of Animals</i> | 3         |        |         |            |         | ANS 3006 & 3006L<br>BSC 2011 & 2011L | Alt. for ANS 3384C:<br>PCB 3063 (4 credits) or<br>AGR 3303 (3 credits) |
| Elective                                |  | 3         |        |         |            |         |                                      |  |
| <b>Total Credits</b>                    |  | <b>14</b> |        |         |            |         |                                      |  |

**Junior Year - Summer (Year)**

| Course Number        | Course Title                               | Credits  | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites   | Common Alternatives |
|----------------------|--|----------|--------|---------|------------|---------|------------------|---------------------|
| Elective (PHY2053)   | <i>Recommended Elective: Physics 1</i>     | 4        |        |         |            |         |                  |                     |
| Elective (PHY2053L)  | <i>Recommended Elective: Physics 1 Lab</i> | 1        |        |         |            |         | Co-req. PHY 2053 |                     |
| <b>Total Credits</b> |  | <b>5</b> |        |         |            |         |                  |                     |

**Senior Year - Fall (Year)**

| Course Number               | Course Title                                     | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites   | Common Alternatives |
|-----------------------------|--|-----------|--------|---------|------------|---------|------------------|---------------------|
| BCH 4024                    | Introduction to Biochemistry & Molecular Biology | 4         |        |         |            |         | CHM 2211         |                     |
| ANS Lecture or Lab Elective | See Approved Elective Listing                    | 3         |        |         |            |         |                  |                     |
| Elective (PHY 2054)         | <i>Recommended Elective: Physics 2</i>           | 4         |        |         |            |         | PHY 2053         |                     |
| Elective (PHY 2054L)        | <i>Recommended Elective: Physics 2 Lab</i>       | 1         |        |         |            |         | Co-req. PHY 2054 |                     |
| Elective                    |  | 3         |        |         |            |         |                  |                     |
| <b>Total Credits</b>        |  | <b>15</b> |        |         |            |         |                  |                     |

**Senior Year - Spring (Year)**

| Course Number               | Course Title                        | Credits   | Gen-Ed | Writing | State Core | UF Core | Pre-Requisites  | Common Alternatives |
|-----------------------------|-------------------------------------|-----------|--------|---------|------------|---------|---|---------------------|
| MCB 3020                    | Basic Biology of Microorganisms     | 3         | B      |         |            |         | CHM 2200 or 2210 & BSC 2010 & 2010L or BSC 2011 & 2011L |                     |
| MCB 3020L                   | Basic Biology of Microorganisms Lab | 1         |        |         |            |         | Co-req. MCB 3020  |                     |
| ANS Lecture or Lab Elective | See Approved Elective Listing       | 3         |        |         |            |         |   |                     |
| Elective                    |                                     | 3         |        |         |            |         |   |                     |
| Elective                    |                                     | 2         |        |         |            |         |   |                     |
| <b>Total Credits</b>        |                                     | <b>12</b> |        |         |            |         |   |                     |

## **Notes**

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Although ECO 2013 will meet State Core and sub for the College requirement, not recommended for freshman