

# Biology --Teacher Certification (7-12)

Name: \_\_\_\_\_

Major (s) (1) \_\_\_\_\_ (2) \_\_\_\_\_

## College Core Requirements

1. Common Intellectual Experience

CIE 100 \_\_\_\_\_ CIE 200 \_\_\_\_\_

2. Foreign Language (two courses)

\_\_\_\_\_ \_\_\_\_\_

3. Deductive Reasoning (R)

\_\_\_\_\_ \_\_\_\_\_

4. Scientific inquiry/experimentation (S)

\_\_\_\_\_ \_\_\_\_\_

5. Social Scientific inquiry (SS)

\_\_\_\_\_ \_\_\_\_\_

6. Quantitative reasoning (Q)

\_\_\_\_\_ \_\_\_\_\_

7. Humanistic inquiry (H)

\_\_\_\_\_ \_\_\_\_\_

8. Artistic/performance (A)

\_\_\_\_\_ \_\_\_\_\_

9. DN/GN and O courses (Only 2 from student's major)

DN Course \_\_\_\_\_ \_\_\_\_\_

GN Course \_\_\_\_\_ \_\_\_\_\_

O Course \_\_\_\_\_ \_\_\_\_\_

10. Linked inquiry (LINQ)

\_\_\_\_\_ \_\_\_\_\_

11. Core Capstone (CCAP)

\_\_\_\_\_ \_\_\_\_\_

12. Experiential Learning Project (XLP)

\_\_\_\_\_ \_\_\_\_\_

## Biology Required (16 credits):

BIO 101Q \_\_\_\_\_ BIO 102Q \_\_\_\_\_

BIO 201W \_\_\_\_\_ BIO 415W \_\_\_\_\_

## Biology distribution/elective courses (20 credits):

Six electives are required (Bio-415W, which is required for certification as noted above, counts as one, leaving five more

Molecular/Cellular (at least two): Bio 220, Bio 225, Bio 306, Bio 328, Bio 333, Bio 345, Bio 346, Bio 351, Bio 425W, Bio 426W, Bio 428W, Bio 429W, Bio 431W, Bio 433W, Bio 435W, Bio 444, Bio 449W, Bio 459W **or** BCMB 351

Animal Biology (at least one--may also count in another category): Bio 305, Bio 306, Bio 325, Bio 365, Bio 442W

Population/Ecology (at least two): Bio 234, Bio 310, Bio 320, Bio 324, Bio 330, Bio 334, Bio 336, Bio 415W **or** Bio 455W

Four-credit research and internships can also be used to fulfill up to two of the six electives

BIO \_\_\_\_\_ BIO \_\_\_\_\_

**Major Capstone:** fulfilled by Bio 415W

## Chemistry, two options (8 credits):

CHEM 107 \_\_\_\_\_ CHEM 107LQ \_\_\_\_\_ **and**

CHEM 108 \_\_\_\_\_ CHEM 108 L \_\_\_\_\_

**OR**

CHEM 151 \_\_\_\_\_ CHEM 151LQ \_\_\_\_\_ **and**

CHEM 207 \_\_\_\_\_ CHEM 207L \_\_\_\_\_

## Math, two of the following (8 credits):

MATH 111 or 112, STAT 141Q, 242, STAT 243W, & CS 173

MATH/STAT/CS \_\_\_\_\_ MATH/STAT/CS \_\_\_\_\_

## Other Required Ancillary for Certification (8 credits)

ENV/GEOL 102Q **OR** 105Q \_\_\_\_\_

PHYS 111Q \_\_\_\_\_ (a full year of physics is recommended)

## PA teacher certification requirements

(38 credits including EDUC-453 student teaching, 12 cr.)

EDUC 100 \_\_\_\_\_ 265 \_\_\_\_\_ 320 \_\_\_\_\_ 350W \_\_\_\_\_

EDUC 360 \_\_\_\_\_ 375 \_\_\_\_\_ 443 \_\_\_\_\_ 453 \_\_\_\_\_ 454 \_\_\_\_\_

## Additional Requirements

**Basic Skills exams:** PAPA or CORE or SAT/ACT \_\_\_\_\_

**Praxis II** content exam: \_\_\_\_\_

**3.0 GPA overall** and in **EDUC** courses; **2.50 in biology major**

**Major department recommendation**

**Semester as a departmental assistant recommended**