

UH-Downtown • Department of Natural Sciences
Student Worksheet for Bachelor of Science in Biological and Physical Sciences
with Concentration in Teacher Certification (July 2013)

Name _____ Student ID # _____
 Phone _____ Email _____

Students in this concentration are encouraged to take 16 hours of upper-level science course in one area so that they may meet the course requirement for future teaching in that subject area. Select an area for 16 hrs. or select General.

- Biology Chemistry Geology Physics General

Notice to all advisors: List only the courses and grades that are to be applied to this degree. List course grade to the left of the course number. Put a (T) to the left of transfer courses. Check boxes when requirements are completed.

General Education Core (30 hrs)

| | | | | | |
|--------------------------|--------------------------|---------------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | ENG 1301 - Composition I | <input type="checkbox"/> | <input type="checkbox"/> | POLS 2303 - US Govt I |
| <input type="checkbox"/> | <input type="checkbox"/> | ENG 1302 - Composition II | <input type="checkbox"/> | <input type="checkbox"/> | POLS 2304 - US Govt II |
| <input type="checkbox"/> | <input type="checkbox"/> | ENG 23XX - Sophomore Lit _____ | <input type="checkbox"/> | <input type="checkbox"/> | HIST 1305, 1306, 2303, or 2309 - History |
| <input type="checkbox"/> | <input type="checkbox"/> | Fine Arts (ART, DRA, MUS) _____ | <input type="checkbox"/> | <input type="checkbox"/> | HIST 1305, 1306, 2303, or 2309 - History |
| <input type="checkbox"/> | <input type="checkbox"/> | Communication* _____ | <input type="checkbox"/> | <input type="checkbox"/> | Social/Behavioral Sciences* _____ |

*see University Catalog for Core Curriculum options

Lower-Level Science Requirements (36 hrs)

| | | | | | |
|--|--------------------------|-------------------------------|--------------------------|--------------------------|--------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | MATH 1404 - Precalculus | <input type="checkbox"/> | <input type="checkbox"/> | CHEM 1308/1108 - Gen Chem II |
| <input type="checkbox"/> | <input type="checkbox"/> | CS 1408 - VB or CS 1410 - C++ | <input type="checkbox"/> | <input type="checkbox"/> | GEOL 1405 - Physical Geology |
| Select seven of the following science courses: | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | BIOL 1301/1101 - Gen Bio I | <input type="checkbox"/> | <input type="checkbox"/> | GEOL 1406 - Historical Geology |
| <input type="checkbox"/> | <input type="checkbox"/> | BIOL 1302/1102 - Gen Bio II | <input type="checkbox"/> | <input type="checkbox"/> | PHYS 1307/1107 - Gen Phys I |
| <input type="checkbox"/> | <input type="checkbox"/> | CHEM 1307/1107 - Gen Chem I | <input type="checkbox"/> | <input type="checkbox"/> | PHYS 1308/1108 - Gen Phys II |

Upper-Level Requirements (44 hrs)

44 hours of department approved 3000/4000 level (UL) courses, of which at least 22 hours must be in the natural sciences with a minimum grade point average in natural sciences courses of 2.0 or better. At least 7-8 hours must be in 4000-level natural sciences lecture courses with at least one laboratory course. Field experience or thesis credit cannot be used to satisfy this requirement. **All Education courses are required.**

| | | | | | |
|--------------------------|--------------------------|----------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | (4000 Science - Lab) | <input type="checkbox"/> | <input type="checkbox"/> | *PED 3301 - Introduction to Special Populations |
| <input type="checkbox"/> | <input type="checkbox"/> | (4000 Science) | <input type="checkbox"/> | <input type="checkbox"/> | *READ 3309 - Teaching Reading in the Content Areas |
| <input type="checkbox"/> | <input type="checkbox"/> | (4000 Science) | <input type="checkbox"/> | <input type="checkbox"/> | ¹ PED 3305 - Understanding EC-12th Grade Learner |
| <input type="checkbox"/> | <input type="checkbox"/> | (UL Science) | <input type="checkbox"/> | <input type="checkbox"/> | ¹ SED 3312 - Org & Man Classroom Env in Sec Sch |
| <input type="checkbox"/> | <input type="checkbox"/> | (UL Science) | <input type="checkbox"/> | <input type="checkbox"/> | ¹ PED 4380 - Field Exp Urban Pub Sch Classroom I |
| <input type="checkbox"/> | <input type="checkbox"/> | (UL Science) | <input type="checkbox"/> | <input type="checkbox"/> | ² SED 3302 - Inst Des to Promote Student Learning |
| <input type="checkbox"/> | <input type="checkbox"/> | (UL Science) | <input type="checkbox"/> | <input type="checkbox"/> | ² SED 3307 - Sec Teacher roles in Assess & Profes |
| <input type="checkbox"/> | <input type="checkbox"/> | (UL Science) | <input type="checkbox"/> | <input type="checkbox"/> | plus one hour from the upper-level electives below |

NOTE: No more than 28 hrs of Natural Science courses may be in a single discipline, and no more than 18 hours of the required upper-level science may be in a single discipline. (In this department we have five disciplines: biology, chemistry, geology, microbiology, and physics.) BIOL/CHEM/MBIO 4390 must be approved in writing by your Faculty Advisor. **All Education courses are required.**

APPROVED ELECTIVES - Upper or Lower Level (at least 11 hrs)

Electives must be approved by your faculty advisor and/or program coordinator.

| | | | | | |
|--------------------------|--------------------------|---|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | ³ SED 4301 - Student Teaching Secondary Classroom I | <input type="checkbox"/> | <input type="checkbox"/> | ² PED 4381 - Field Exp Urban Pub Sch Classroom II |
| <input type="checkbox"/> | <input type="checkbox"/> | ³ SED 4302 - Student Teaching Secondary Classroom II | <input type="checkbox"/> | <input type="checkbox"/> | |
| <input type="checkbox"/> | <input type="checkbox"/> | ³ READ 4321 - Literacy across the Curriculum 8-12 | <input type="checkbox"/> | <input type="checkbox"/> | |
| <input type="checkbox"/> | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | |

*Free Standing Courses; ¹Block 1 (Pro Dev 1); ²Block 2 (Pro Dev 2); ³Block 3 (Student Teaching)

121 hours required

ADDITIONAL REQUIREMENTS - May be satisfied by requirements above

TSI Complete - See university catalog for more information.

ONE ETHICAL AND MORAL ISSUES COURSE - See NS website for eligible courses

TWO WRITING SKILLS COURSES - See NS website for eligible courses

ONE WORLD COMMUNITY COURSE - See NS website for eligible courses

ENG 2301, 2302, 2313, or 2314 will satisfy both the Sophomore Lit and World Community requirements.

ONE NONVERBAL ANALYTICAL SKILLS COURSE - Satisfied by degree requirements

