***STUDENT LEARNING ASSESSMENT PROGRAM***

***SUMMARY FORM AY 2017-2018***

Please complete a separate worksheet for each academic program (major, minor) at each level (undergraduate, graduate) in your department. Worksheets are due to CASA this year by **June 15, 2018**. Worksheets should be sent electronically to [kjsanders@eiu.edu](mailto:kjsanders@eiu.edu) and should also be submitted to your college dean. For information about assessment or help with your assessment plans, visit the Assessment webpage at <http://www.eiu.edu/~assess/> or contact Karla Sanders in CASA at 581-6056.

B.S. Science with Teacher Education BIO

**Degree and**

**Program Name:**

# Submitted By:

Ruth Chesnut

**Please use size 10 font or larger.**

**PART ONE**

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| What are the learning objectives? | How, where, and when are they assessed? | What are the expectations? | What are the results? | Committee/ person responsible? How are results shared? |
| 1. Students will demonstrate appropriate knowledge in the Biological Sciences (scientific reasoning; genetics and cell biology; anatomy, morphology, and systematics; physiology; ecology; evolution). | Students take the Content Test in Biological Sciences provided by the Illinois State Board of Education during their senior year.  Instructors assess students throughout each science course and assign final course grades. | 90% of our majors taking the exam will receive a passing score. A 70% composite score in six sub-area tests is considered passing.  Students will earn a final grade of C or better in 80% of science courses taken. | Between June 1, 2016 and May 31, 2018, 100% of our majors who attempted the exam passed it. One student out of seven required two attempts. One student earned nearly a perfect score.  Students earned a final grade of C or better in 95% of science courses taken. | Test results are reported to the Coordinator of the Science with Teacher  Education Program and to the SCI-B advisor.  Instructors assess students. The SCI-B advisor reviews grades. |
| 2. Students will demonstrate instructional skills needed for teaching secondary science. | Students will be assessed in BIO 3400 on their abilities to implement appropriate strategies, methods, and organizational skills for teaching secondary science courses. Assessment is based on written lesson and unit plans, construction of assessment tools, and quizzes over science classroom safety and pedagogy.  Student teachers are assessed by the edTPA, as required by the state for licensure. The test assesses ability to plan for instruction, to engage students in learning, and to assess students.  Student teachers complete an Impact on Student Learning Assignment in which they measure their own students’ improvements in understanding science.  Student teachers are evaluated by their cooperating teachers and their student teaching coordinators using the rubric in Appendix K of the [Student Teaching Handbook](http://www.eiu.edu/ceps/teached/STGHandbook078x11.pdf). | 90% of students will earn at least 70 percent on core assignments in BIO 3400.  90% of student teachers will receive a passing score.  70% of student teachers will achieve a score of Acceptable on the three measures of the assessment.  Measure 1: Teaching content  Measure 2: Teaching analytic thinking  Measure 3: Teaching inquiry  100% of students enrolled in student teaching will earn credit. (Student teaching is graded credit/no credit.) | Percent of students completing BIO 3400 who earned at least 70% on these assignments:  Unit plan: 100%  Lesson plans: 100%  Quiz average: 100%  Lead discussion: 100%  Implement standards: 100%  83% (5 out of 6) of student teachers received a passing score.  Percent of student teachers who achieved a score of Acceptable:  Measure 1: 100%  Measure 2: 100%  Measure 3: 100%  100% of students enrolled in student teaching received credit during 2016-2018. | Instructor for BIO 3400 assesses assignments and revises course content accordingly. A summary of the results is reported to the SCI-B Advisor.  ISBE sends test results to CEPS; CEPS forwards them to the Coordinator for the Science with Teacher Certification Program, who reports them to the SCI-B advisor.  The Coordinator for the Science with Teacher Certification Program assesses assignments and provides a summary report to the SCI-B advisor.  The SCI-B advisor checks grades of graduating seniors. |
| 3. Students will demonstrate competence in writing. | Students submit writing samples to the EWP throughout the academic year. | 90% of submissions will earn satisfactory ratings (3-4) on their submissions to the EWP. | 80% of submissions (4 out of 5) earned satisfactory ratings (3-4). | EWP results are reported to the Department of Biological Sciences by CASA. |
| 4. Students will demonstrate competence in speaking. | Students are assessed in CMN 1310G and Senior Seminars.  Students’ practice lessons in BIO 3400 are evaluated using a rubric.  Students in BIO 3400 lead a discussion of a case study and are evaluated using a rubric. | 90% of students will earn a holistic score of Competent or better.  90% of students will earn 70% or better on their practice lessons in BIO 3400.  90% of students will earn 70% or better on their discussions. | 100% of students earned a holistic score of Highly Competent  100% of students in BIO 3400 earned 70% or better on their practice lessons.  100% of students in BIO 3400 earned 70% or better on their discussions. | Course instructors assess students and report results to CASA. Results are sent to departments.  The instructor for BIO 3400 assesses lessons and discussions and provides a summary report to the Teacher Certification Advisor. |
| 5. Students will demonstrate competence in critical thinking. | Student teachers complete an Impact on Student Learning Assignment in which they measure their own students’ improvements in understanding science.  The unit plan assignment in BIO 3400 requires critical thinking skills for successful completion. | 70% of student teachers will achieve a score of Target on the three measures of the assessment.  Measure 1: Teaching content  Measure 2: Teaching analytic thinking  Measure 3: Teaching inquiry  70% of students will earn at least 70% on the unit plan assignment. | Percent of student teachers who achieved a score of Target:  Measure 1: 100%  Measure 2: 100%  Measure 3: 100%  100% of students earned at least 70% on the unit plan assignment. | The Coordinator for the Science with Teacher Certification Program assesses assignments and provides a summary report to the SCI-B advisor.  The instructor for BIO 3400 assesses assignments and provides a summary report to the SCI-B advisor. |
| 6. Students will demonstrate competence in quantitative reasoning. | Instructors assess students throughout each math course and assign final course grades. | Students will earn a final grade of C or better in 80% of math courses taken. | Students earned a final grade of C or better in 100% of math courses. | Instructors assess students. The SCI-B advisor reviews grades. |
| 7. Students will demonstrate responsible citizenship. | Students complete surveys in Senior Seminars. | 50% of students will achieve a level of Target, and 90% of students will achieve at least Developing on each of the following measures:  Participation in voting scored on voter registration (1 point), level of participation in voting (0-4 points), and whether EIU taught them to consider multiple perspectives (0-3 points);  Target = 6 points  Developing = 4 points  Political and Social Involvement:  Scores from 0-3 given on each of 9 different measures, for a maximum score of 27 points.  Target = 14 points  Developing = 9 points  Diversity:  Scores from 0-5 given on each of 15 different measures, for a maximum score of 75 points.  Target = 55 points (3.7 avg)  Developing = 38 (2.5 avg)  Participation in co-curricular activities:  Target = 2 or more activities  Developing = 1 activity | 50% of students achieved Target.  75% of students achieved Target, and 25% achieved Developing.  75% of students achieved Target, and 25% achieved Developing.  75% of students achieved Target, and 25% achieved Developing. | Surveys are administered in courses, results are sent to departments by CASA. |

**PART TWO**

Describe your program’s assessment accomplishments since your last report was submitted. Discuss ways in which you have responded to the CASA Director’s comments on last year’s report or simply describe what assessment work was initiated, continued, or completed.

We continued to assess our Teacher Certification majors’ mastery of science content, teaching skills, writing, speaking, quantitative skills, citizenship, and critical thinking ability. Program strengths identified by the assessment include solid preparation of our students for teaching science content, as evidenced by strong scores on the Illinois Content Area Test and the edTPA.

**PART THREE**

Summarize changes and improvements in **curriculum, instruction, and learning** that have resulted from the implementation of your assessment program. How have you used the data? What have you learned? In light of what you have learned through your assessment efforts this year and in past years, what are your plans for the future?

The results of our assessment indicate that we are effective in training our majors. All passed the state’s Content Area Exam in this evaluation period, with one student earning a particularly high score. Students successfully complete student teaching and are easily finding jobs after graduation. As a group, our majors met our goals for effective communication, quantitative skills, and engagement in critical thinking and responsible citizenship. Math skills were targeted for improvement in the previous major assessment, so it is gratifying that the target was met this time. An area for improvement identified by this assessment is the pass rate for the edTPA; 5 out of 6 passing on their first attempt is very good, but one student needed to resubmit materials. The instructor for BIO 3400 will modify instruction as needed to prepare students for this test.