

2016-17 Department Student Success Plan Assessment Report

Center for Science Education

Please answer the following questions in two pages and submit to your Dean by October 2. Your Dean will offer you feedback by Oct. 16 and advance final version¹ to Academic Affairs by October 20. This report will inform your 2017-18 Student Success Plan update that will be due to your Dean by Nov. 3. Previous report and plans can be found at this website: <http://irt2.indstate.edu/cms7/sp16/index.cfm/department-plans/>.

Person Primarily Responsible for Preparing this Report: Elsun Seung

1. Specific accomplishments/achievements this past year**(briefly explain using bullet points, noting any changed/adapted):**

- The number of enrolled students has remained: 27 in Fall 2016 and 27 in Fall 2017
The enrollment goal for the 2014-2017 student success plan: 20 in Fall 2017
- 4-year graduation rate increased: 33.33% (1 year change)
: Cohort total: 2 in Fall 2012, Cohort graduation rate in 2015-16: 0%
: Cohort total: 3 in Fall 2013, Cohort graduation rate in 2016-17: 33.33%
- 1-year retention rate increased: 14.29 % (1 year change)
: Cohort total: 7 in Fall 2015, 2015-16 retention rate: 85.71%
: Cohort total: 6 in Fall 2016, 2016-17 retention rate: 100%
- Did explicit degree audits when students complete 80 – 90 credit hours
- Encouraged Science Education majors to use the Help Center tutoring for their science courses
- Supported Science Education majors for them to attend the state science teacher conferences
 - HASTI conference, IN (Hoosier Association for Science Teachers, Inc.)
: Two students attended with one Science Education faculty member (February 3-5, 2017)
- Provided a Science Education Seminar: Invited a local, experienced science teacher as a guest speaker. Ten science education majors and Science Education faculty attended (November 14, 2016).
Topic: Advice for beginning teachers
- Encouraged Science Education majors to join various activities run by the student organization. Science Education majors make connections with peers and increase their motivation to teach science.
 - Participated in the Night at the Museum event for local K-12 students (March 30, 2017)
Nine students and two faculty in Science Education attended
 - Provided a Fun Science Afternoon event for the Boys and Girls Club in the Vigo County School Cooperation (November 7, 2016)
- Provided Science Fair judges for local middle schools
February 21, 2017: 10 students, Sarah Scott Middle School
February 22, 2017: 6 students, Honey Creek Middle School
- Provided a science education open house for science and science education majors every semester (September 6, 2016 and February 1, 2017: 18 students attended)
- Developed a new advertising flyer to inform science majors about the Science Education program
Posted this flyer in the science building and emailed it to all science majors in September, 2016
- Updated a spreadsheet of graduating seniors, whether teacher licensure was conferred, and place of employment (May 20, 2017)
- Conducted exit interviews with Science Education majors who graduated in May 2017 (May 3, 2017)

¹ Dean will request a refinement to the report if it is not suitably addressing the questions. Report will be shared with Trustees.

2. Objective/Actions Not Achieved (*briefly explain using bullet points*):

- Write letters to accepted students to briefly introduce our Science Education program
 - Target date for completion: August 15, 2017
 - Will complete by: October 10, 2017
- Meet with freshmen after they receive interim grades to check on their academic status, and introduce the Science Education curriculum and teacher licensing process
 - Target date for completion: October 10, 2016
 - We invited Science Education freshmen for advising, but none have attended. We will keep providing advising sessions for freshmen.

3. Attention areas going forward as informed by 2016-17 retention, completion, course completion ratio, credit hour productivity, and D/F/drop rate data provided as well as other Blue Report or departmental data (*briefly explain using bullet points*).

- Increasing 4-year graduation rate
While our majors' 1-year retention rate is high, their 4-year graduation rate is relatively low (33.33% for the Fall 2013 cohort). This is mainly because of our demanding curriculum which requires more than 9 semesters to complete. However, we have recently revised our curriculum so that our majors with a Middle School and Earth Space Science concentration can complete their degree in four years. Starting Fall 2017, Science Education students who have Chemistry or Physics as their second major can choose a BA degree for their content area. We expect these curriculum changes will contribute to an increase in our majors' 4-year graduation rate.
- Remaining high rate of course completion and low rate of D/F/Drop
Our majors' course completion rates for low and high division courses in 2016-17 were 97.87% and 97.46%, respectively. Our majors' D/F/Drop rate was 1.47% in Fall 2015 and 5.0% in Fall 2016. In order to perpetuate our majors' high rate of course completion and low rate of D/F/Drop, we will keep providing consistent advising and follow up with students who are having difficulty in their science classes.