

## 2021 INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET

**CURRENT YEAR: 2020-2021      PROGRAM: EOS**

**CLUSTER: ARTS, HUMANITIES, MATH & SCIENCES**

**LAST YEAR CPPR COMPLETED: 2019**

**NEXT SCHEDULED CPPR: 2022-2024**

**CURRENT DATE: 2/11/2021**

The Annual Program Planning Worksheet (APPW) is the process for:

- reviewing, analyzing and assessing programs on an annual basis
- documenting relevant program changes, trends, and plans for the upcoming year
- identifying program needs, if any, that will become part of the program's [resource plan](#)
- highlighting specific program accomplishments and updates since last year's APPW
- tracking progress on a Program Sustainability Plan if established previously

**Note:** Degrees and/or certificates for the *same* program **may be consolidated** into one APPW.

This APPW encompasses the following degrees and/or certificates:

Geology AS degree and ADT in geology; GIS Certificate Program.

### GENERAL PROGRAM UPDATE

Describe significant changes, if any, to program mission, purpose or direction. *If there are not any, indicate: NONE.*

The GIS Certificate Program started in Fall 2019 and we are in the second year. A part-time EOS faculty member is working with NSF IUSE Grant team and has submitted a proposal for a STEM Seminar to be taught starting Spring 2022. We are planning to provide more research opportunities for students through partnerships with local government agencies, private companies and non-profit organizations.

### PROGRAM SUSTAINABILITY PLAN UPDATE

Was a Program Sustainability Plan established in your program's most recent Comprehensive Program Plan and Review?

Yes  If yes, please complete the Program Sustainability Plan Progress Report below.

No  If no, you do not need to complete a Progress Report.

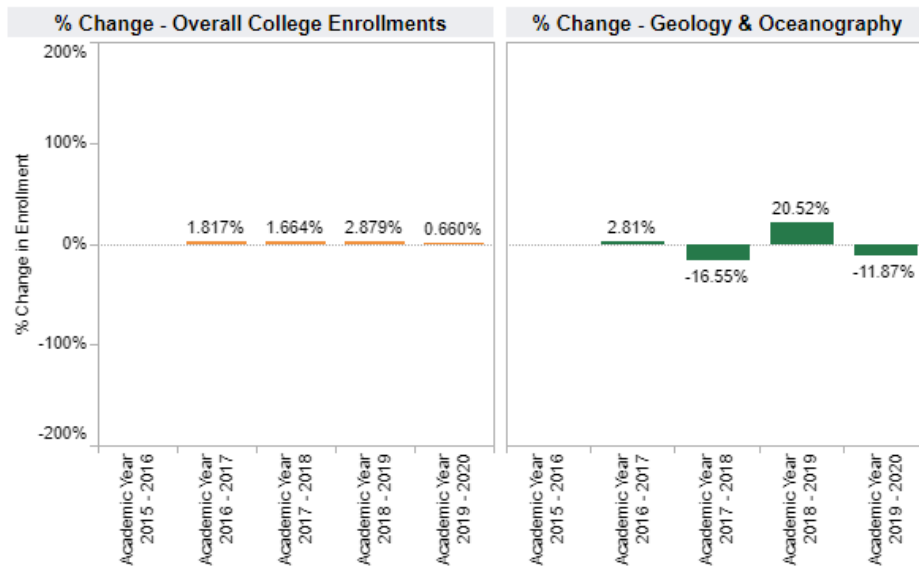
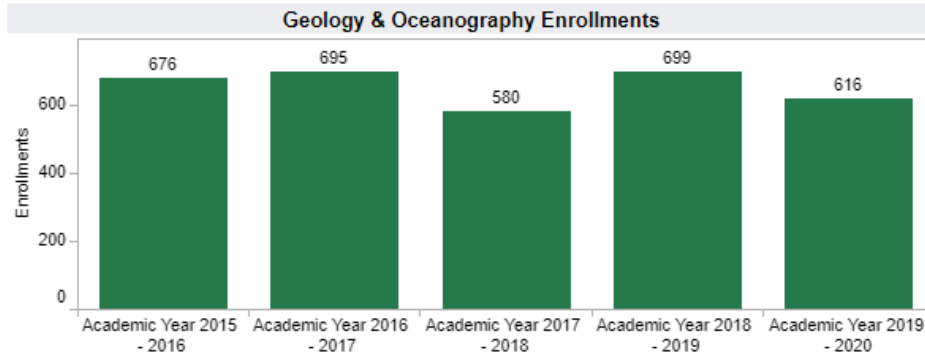
If you selected yes, please complete the Program Sustainability Plan Progress Report below after you complete the Data Analysis section. That data collection and analysis will help you to update, if necessary, your Program Sustainability Plan.

### DATA ANALYSIS AND PROGRAM-SPECIFIC MEASUREMENTS

Your responses to the prompts for the data elements below should be for the entire program. If this APPW is for multiple degrees and/or certificates, then you MAY want to comment on each degree and/or certificate or discuss them holistically for the entire program being sure to highlight relevant trends for particular degrees and/or certificates if necessary. Responses in this document need only reference the most recent year's available data.

[General Enrollment \(Insert Aggregated Data Chart\)](#)

Insert the data chart and explain observed differences between the program and the college.  
 Geology and Oceanography

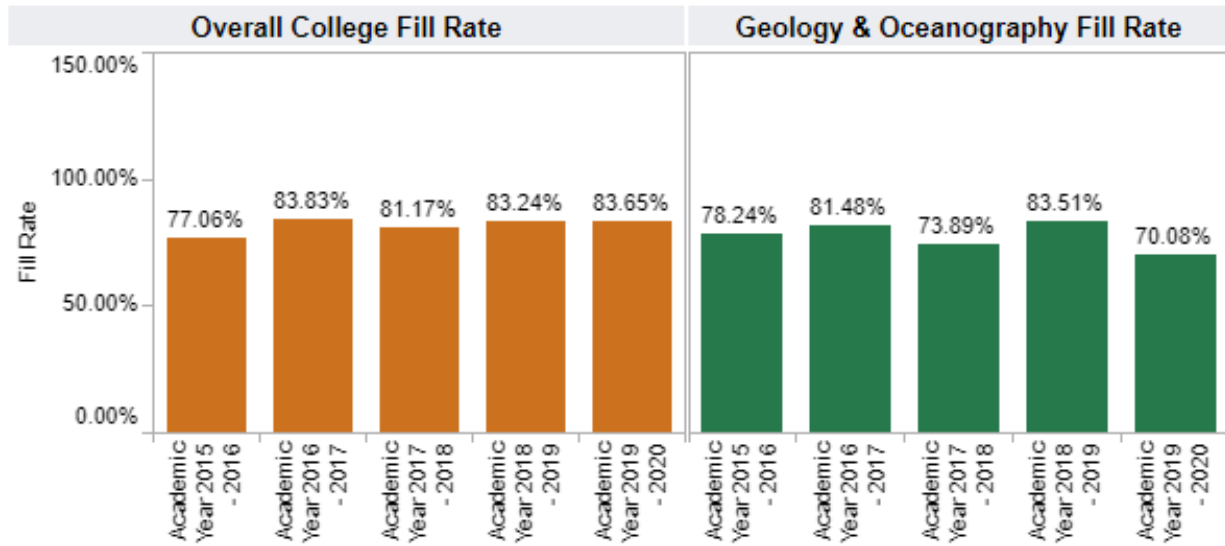


Enrollment: Duplicated count of students who completed greater than 0 units in positive attendance courses or were present on census for all other accounting methods.

Our enrollments were stable, then increased in 2018-2019 when a new section of an oceanography lab and lecture were added.

[General Student Demand \(Fill Rate\) \(Insert Aggregated Data Chart\)](#)

Insert the data chart and explain observed differences between the program and the college.

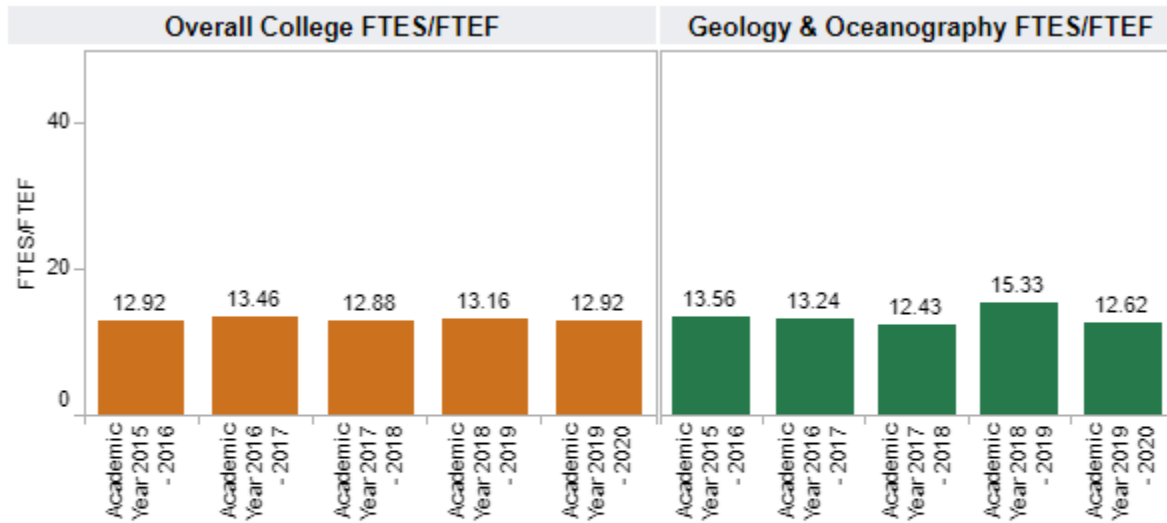


**Fill Rate:** The ratio of enrollments to class limits. Cross listed class limits are adjusted appropriately. Also, courses with zero class limits are excluded from this measure.

Combined Oceanography and Geology fill rates have mostly been on par with the rest of the college. Part of the decreased fill rates is due to offering classes in larger classrooms with higher capacity.

[General Efficiency \(FTES/FTEF\) \(Insert Aggregated Data Chart\)](#)

Insert the data chart and explain observed differences between the program and the college.

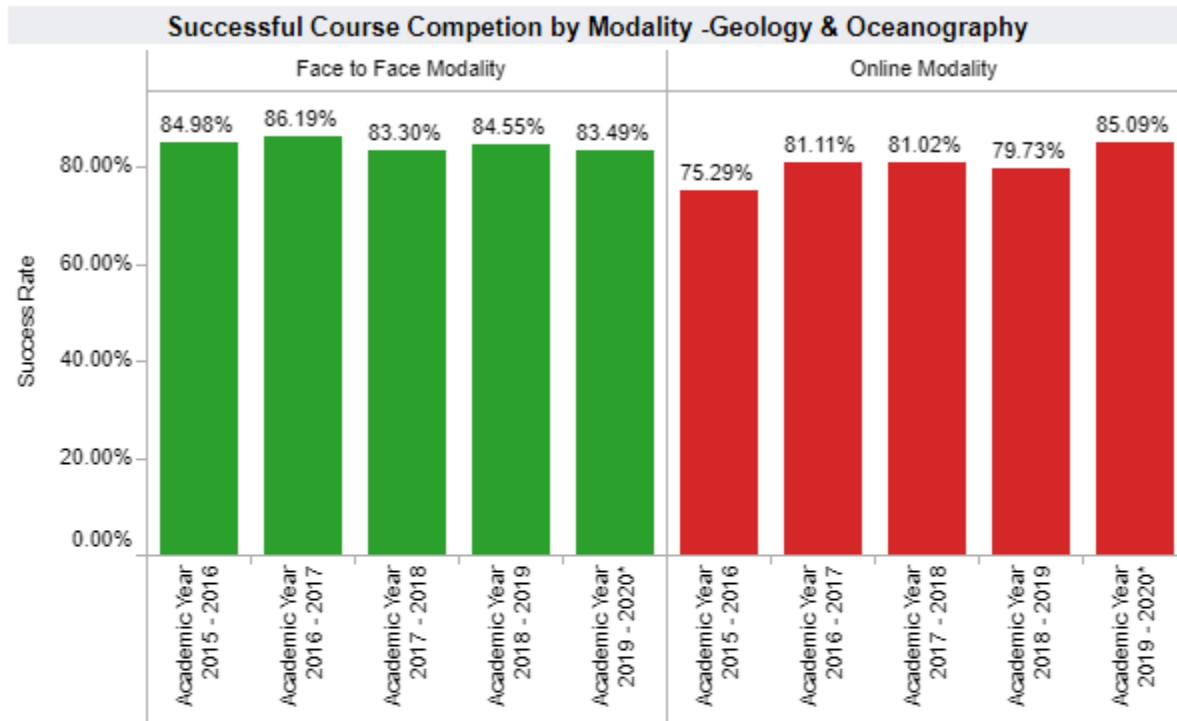


FTES/FTEF: The ratio of total FTES to Full-Time Equivalent Faculty  
(SXD4 Total-Hours/17.5)/XE03 FACULTY-ASSIGNMENT-FTE)

The combined efficiency for Geology and Oceanography classes exceeded the overall college FTES in 2018-2019 when an additional lab and lecture section of Oceanography courses were offered, and though FTES declined in 2019-2020, they were on par with the college.

[Student Success—Course Completion by Modality \(Insert Data Chart\)](#)

Insert the data chart and explain observed differences between the program and the college.



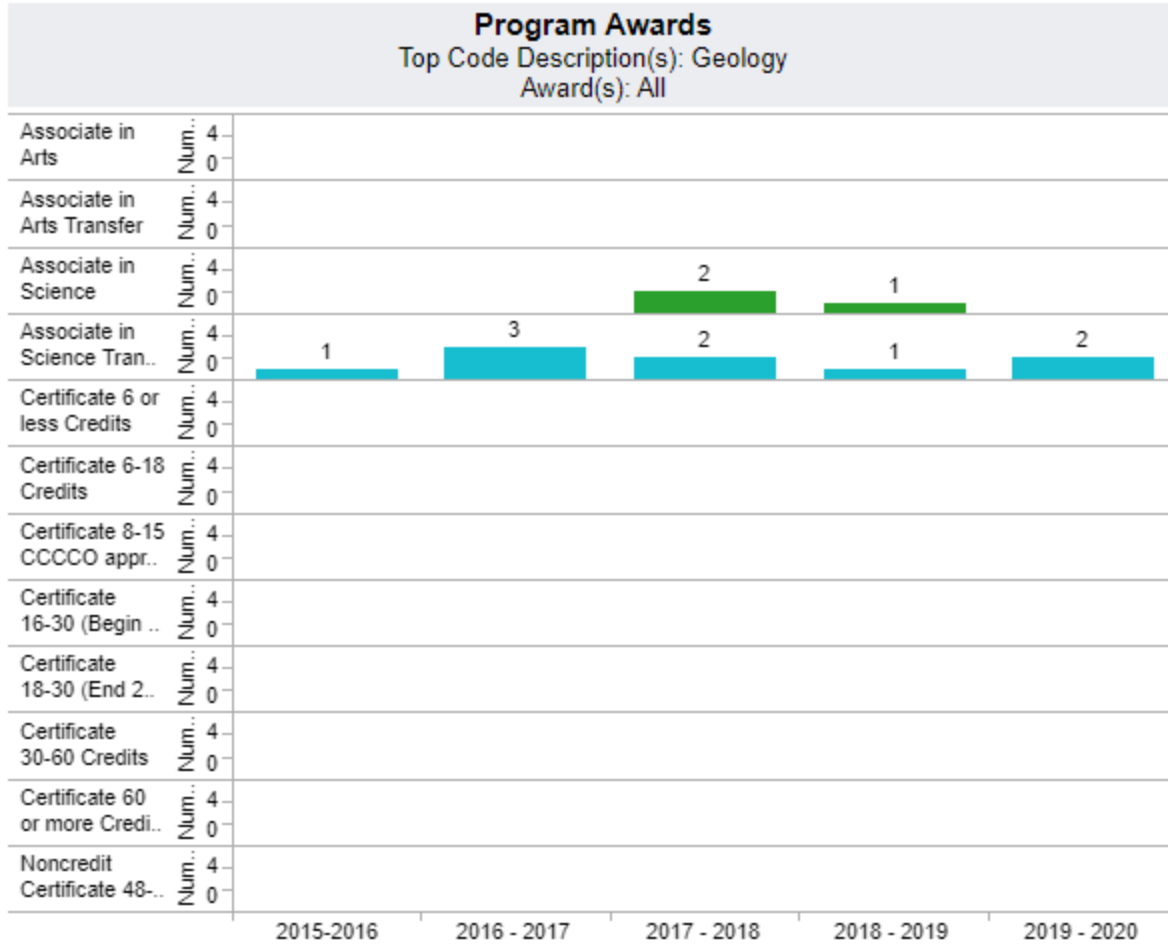
		Academic Year 2015 - 2016	Academic Year 2016 - 2017	Academic Year 2017 - 2018	Academic Year 2018 - 2019	Academic Year 2019 - 2020*
Face to Face Modality	Department Success Rate	84.98%	86.19%	83.30%	84.55%	83.49%
	Total Department Enrollments	586.0	601.0	444.0	577.0	456.0
Online Modality	Department Success Rate	75.29%	81.11%	81.02%	79.73%	85.09%
	Total Department Enrollments	85.0	90.0	137.0	149.0	164.0

There was one online modality course offered in Oceanography and 3 courses offered in the GIS Certificate Program (GEOL coded courses) during this period until the COVID-19 pandemic when all courses switched to emergency online education. Success in the online modality matched or exceeded face-to-face modality. Students enrolled in online courses in Spring 2020 may have had an easier transition during the emergency online education than face-to-face students demonstrated in slightly higher success rates.

[Degrees and Certificates Awarded \(Insert Data Chart\)](#)

Insert the data chart and explain observed differences between the program and the college.

Program:  Award Type:



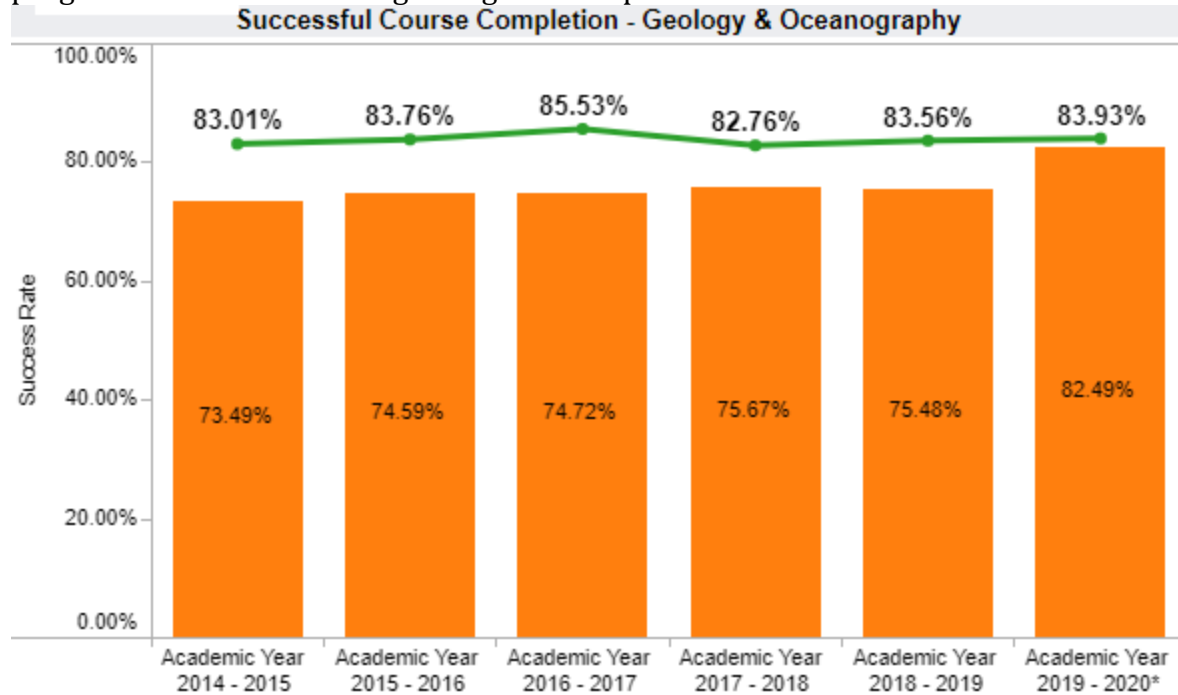
**Program Awards Table**

Award T..	Award	2015-2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020
Associate in Science	Geology (AS)			2	1	
	<b>Total</b>			2	1	
Associate in Scienc..	Geology (AST)	1	3	2	1	2
	<b>Total</b>	1	3	2	1	2
<b>Grand Total</b>		1	3	4	2	2

Program Awards: The number of degree and certificates awarded by program type

[General Student Success – Course Completion \(Insert Aggregated Data Chart\)](#)

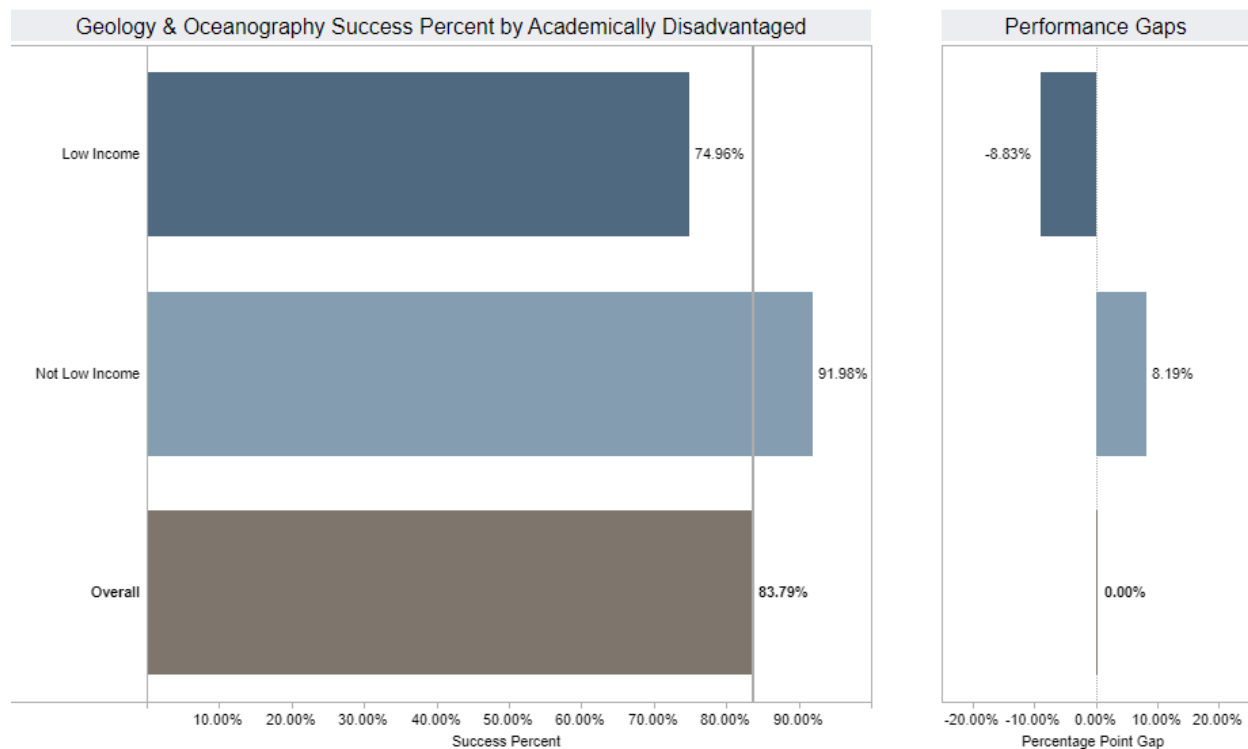
Review the [Disaggregated Student Success](#) charts; include any charts that you will reference. Describe any departmental or pedagogical outcomes that have occurred as a result of programmatic discussion regarding the data presented.



**Geology & Oceanography Success Rate Table**

	Academic Year 2015 - 2016	Academic Year 2016 - 2017	Academic Year 2017 - 2018	Academic Year 2018 - 2019	Academic Year 2019 - 2020*
Department Success..	83.76%	85.53%	82.76%	83.56%	83.93%
Total Enrollments	671	691	581	726	620

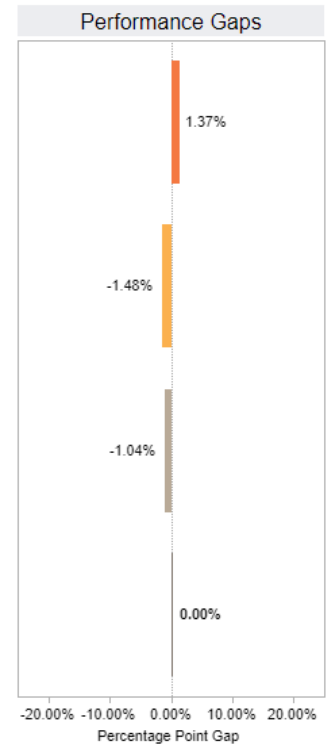
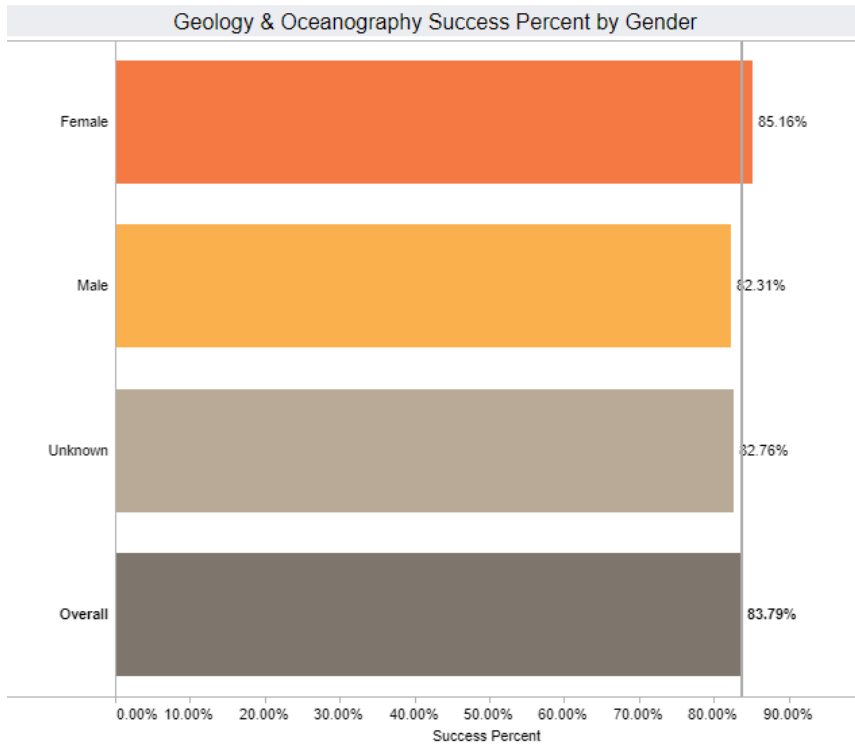
The success rates in geology and oceanography exceeded the overall college rate for every year.



Note: Successful Course Completion is the ratio of enrollments resulting in a final grade of A, A-, B+, B, B-, C+, C, CR or P to all valid grades.

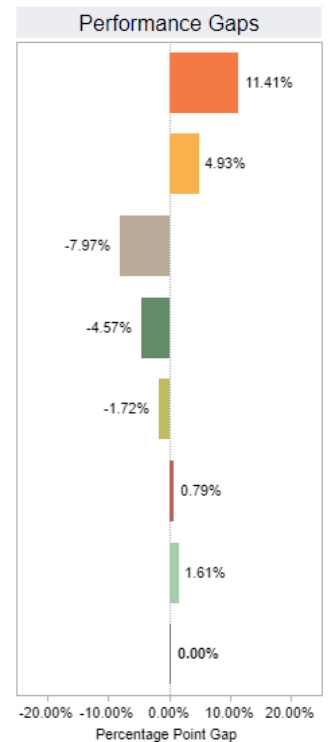
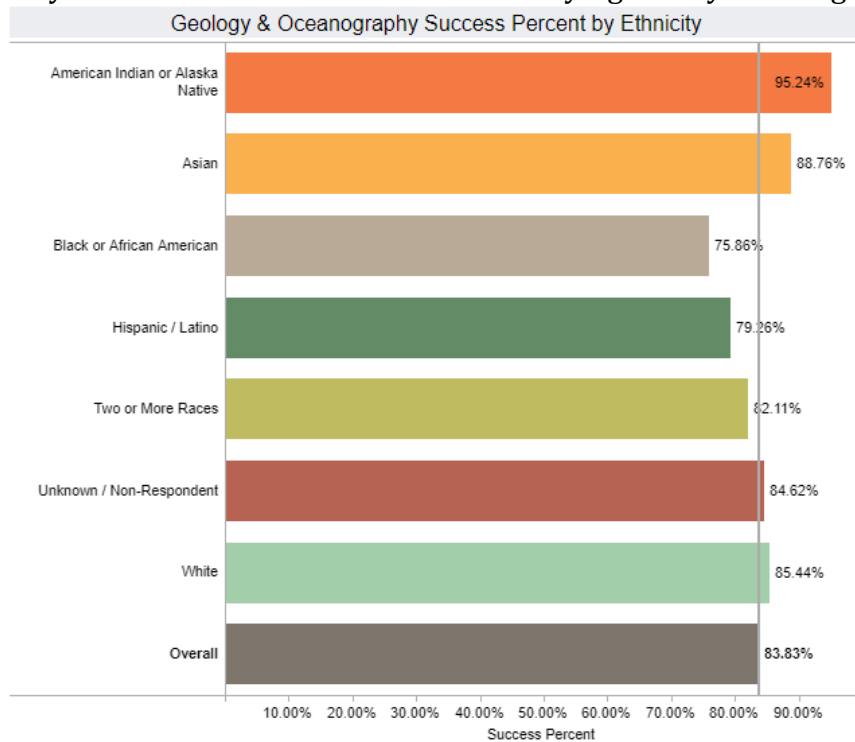
The gap between low income and high income has narrowed but is still conspicuous. Part of this is a result of low-income students being unwilling or unable to purchase textbooks and Access cards required to use the web-based software. Multiple instructors have changed course materials to be part of the First-Day Access program to reduce the cost to students and have incorporated more OER.



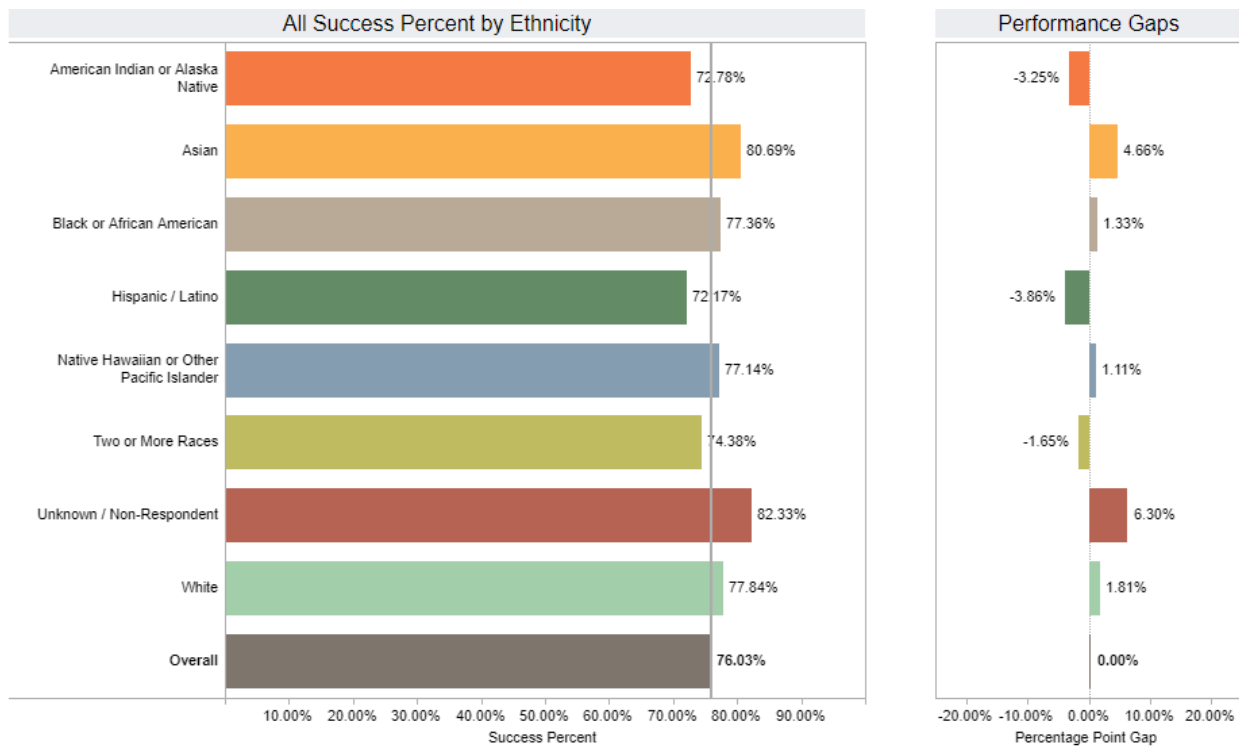


Note: Successful Course Completion is the ratio of enrollments resulting in a final grade of A, A-, B+, B, B-, C+, C, CR or P to all valid grades.

The data indicates little disparity between student-identified genders with a slightly higher rate of success for female-identifying students. This increase in female-identifying students may be attributed to more female-identifying faculty teaching these STEM courses.



Note: Successful Course Completion is the ratio of enrollments resulting in a final grade of A, A-, B+, B, B-, C+, C, CR or P to all valid grades.



Note: Successful Course Completion is the ratio of enrollments resulting in a final grade of A, A-, B+, B, B-, C+, C, CR or P to all valid grades.

Student success disaggregated by ethnicity reveals there is an equity-gap between Black or African American and Hispanic/Latinx students, with a greater gap between Black or African American students and a smaller gap between Hispanic/Latinx students when compared to all student success by ethnicity. At least one faculty member is attending the J.E.D.I. workshop in Spring 2021 to improve their pedagogy to more equitable practices.

#### OTHER RELEVANT PROGRAM DATA (OPTIONAL)

Provide and comment on any other data that is relevant to your program such as state or national certification/licensure exam results, employment data, etc. If necessary, describe origin and/or data collection methods used.

N/A

#### PROGRAM OUTCOMES ASSESSMENT CHECKLIST AND NARRATIVE

##### CHECKLIST:

- SLO assessment cycle calendar is up to date.
- All courses scheduled for assessment have been assessed in eLumen.
- Program Sustainability Plan progress report completed (if applicable).

### **NARRATIVE:**

Briefly describe program changes, if any, which have been implemented in the previous year as a direct result of the Program or Student Services Learning Outcomes Assessment. *If no program changes have been made as results of Program or Student Services Learning Outcomes Assessment, indicate: NONE.*  
None.

### **PROGRAM PLANNING / FORECASTING FOR THE NEXT ACADEMIC YEAR**

Briefly describe any program plans for the upcoming academic year. These may include but are not limited to the following: *(Note: you do not need to respond to each of the items below). If there are no forecasted plans for the program, for the upcoming year, indicate: NONE.*

- G. New or modified plans for achieving program-learning outcomes
- H. Anticipated changes in curriculum, scheduling or delivery modality. We anticipate Geology 212 will remain in the Distance Education modality post-COVID emergency online education. We will also continue to offer five fully DE GIS courses to support an online certificate program. Geology 211 is scheduled to run at least once per academic year for students in the ADT program.
- I. Levels, delivery or types of services. Geology 210 should be expanded to two sections with a double-lecture and two lab sections or two single-lectures and two lab sections to accommodate student demand.
- J. Facilities changes
- K. Staffing projections. A full-time hire is anticipated to join EOS in Fall 2021 to maintain this program since the retirement of both FT faculty, one in Spring 2018 and the second in Fall 2020. We also expect one of our PT faculty to retire from their FT position, so they may not be available to teach courses in the six months following their retirement.
- L. Other. The Geology and Oceanography programs would benefit from more interactive equipment for student engagement and hands-on experiences. Faculty are aiming to budget for a stream table and a wave table.

PROGRAM SUSTAINABILITY PLAN PROGRESS REPORT

**This section only needs to be completed if a program has an existing Program Sustainability Plan. Indicate whether objectives established in your Program Sustainability Plan have been addressed or not, and if improvement targets have been met.**

Area of Decline or Challenge	Identified Objective (Paste from PSP)	Planning Steps (Check all that apply)	Has the Improvement Target Been Met?
Enrollment		<input type="checkbox"/> Identified <input type="checkbox"/> Resources Allocated <input type="checkbox"/> Implemented	Select one
Student Demand (Fill Rate)		<input type="checkbox"/> Identified <input type="checkbox"/> Resources Allocated <input type="checkbox"/> Implemented	Select one
Efficiency (FTES/FTEF)		<input type="checkbox"/> Identified <input type="checkbox"/> Resources Allocated <input type="checkbox"/> Implemented	Select one
Student Success – Course Completion		<input type="checkbox"/> Identified <input type="checkbox"/> Resources Allocated <input type="checkbox"/> Implemented	Select one
Student Success — Course Modality		<input type="checkbox"/> Identified <input type="checkbox"/> Resources Allocated <input type="checkbox"/> Implemented	Select one
Degrees and Certificates Awarded		<input type="checkbox"/> Identified <input type="checkbox"/> Resources Allocated <input type="checkbox"/> Implemented	Select one

**If Program Sustainability Plan is still necessary, provide a brief description of how you plan to continue your PSP and update your PSP to remove any objectives that have been addressed and include any new objectives that are needed.**