

# INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

CURRENT YEAR: 2017-2018

PROGRAM: ASTRONOMY

CLUSTER: MATH AND SCIENCES LAST YEAR CPPR COMPLETED: 2014-15

NEXT SCHEDULED CPPR: 2018-19

CURRENT DATE: 06/03/2017

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:

(N/A)

## GENERAL PROGRAM UPDATE

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

None

## 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

In addition to other data that is relevant to your program, institutional program data is available on the [SLOCCCD Institutional Research and Assessment Program Review Data Dashboard site](#). Please paste the charts into this document, and respond to the prompts for each data element. Please also comment on your program's data and how it compares to the overall college data. Take time to work with your faculty to review the disaggregated data. Several measures can be "drilled down" to reveal differentiated results based on location, modality, ethnicity, age, gender and so on. This disaggregated data can reveal a great deal about your program's effectiveness.

**Note:** 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.

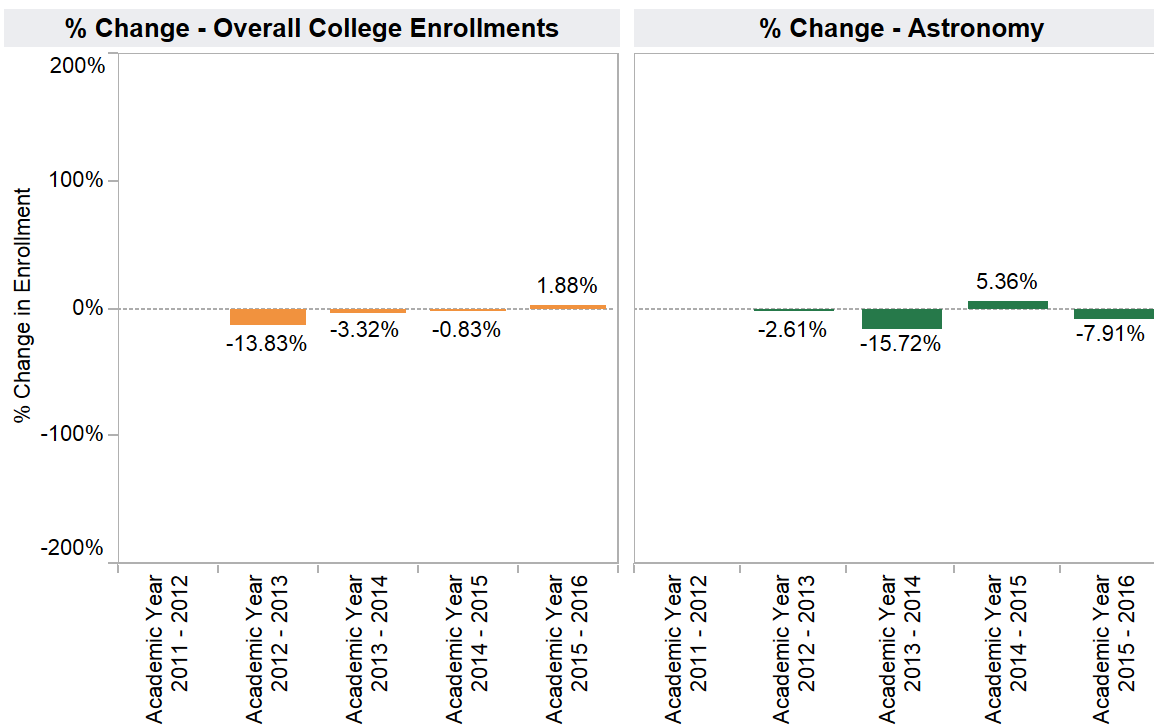
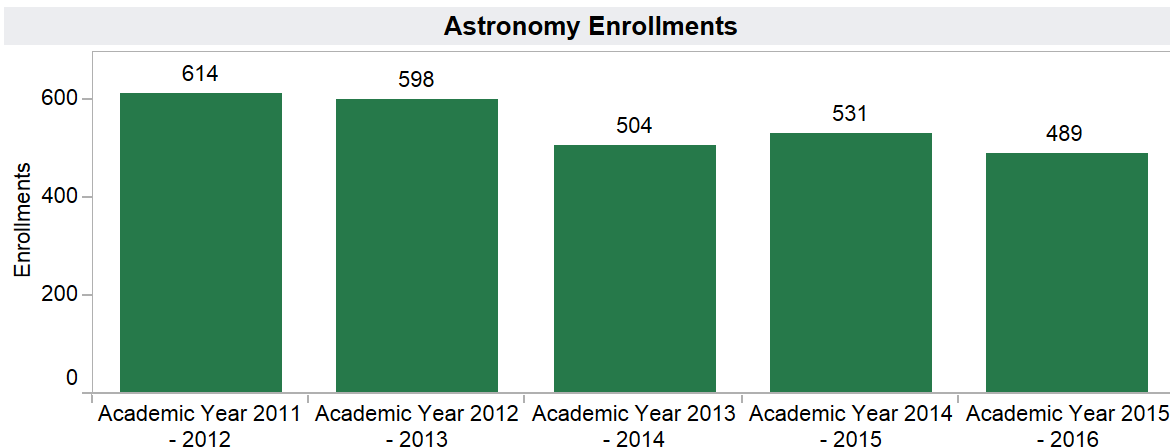
## INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

# INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

## SLOCCCD Program Review Data - Enrollment

**Department:**  
Astronomy

**Course:**  
All



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.

Astronomy course enrollments have declined very slightly over the last four years. The enrollment in the 2013-14 year was markedly lower than 2012-13, 2014-2015, and 2015-2016. This was due to offering one section of ASTR 210 in a three-hour, one day a week section during the day, instead of a 1.5 hour, two days a week section. Enrollment in this

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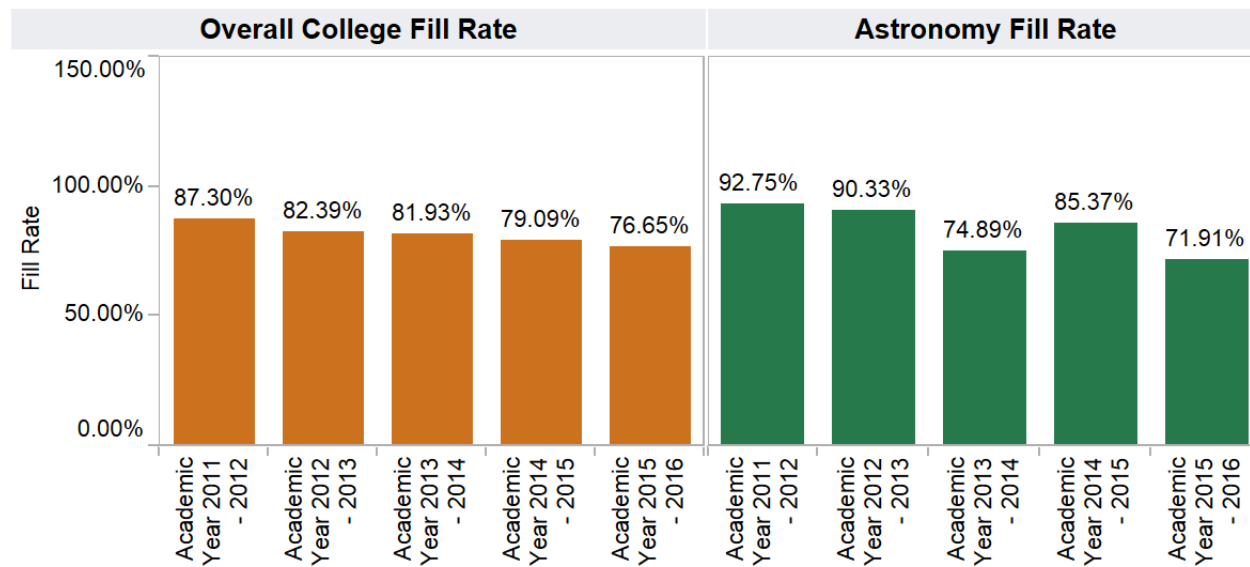
modified section was much lower than its historical levels, and has since been changed back to the previous 1.5 hour, two days a week scheduling for 2014-2015. Subsequently the course enrollment has remained static with a slight increase in 2014-2015 and a slight decrease in 2015-2016.

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## SLOCCCD Program Review Data - Student Demand (Fill Rate)

**Department:**  
Astronomy

**Course:**  
All



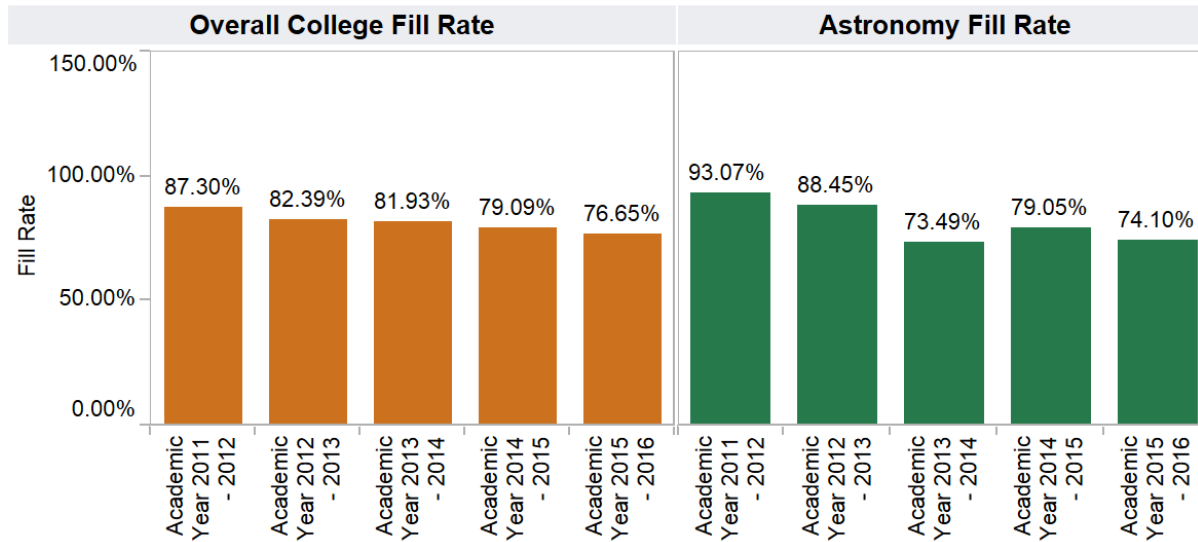
Fill Rate: The ratio of enrollments to class limits. Cross listed class limits are adjusted appropriately.  
Also, courses with zero class limits are excluded from this measure.

# INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

## SLOCCCD Program Review Data - Student Demand (Fill Rate)

Department:  
Astronomy

Course:  
ASTR 210



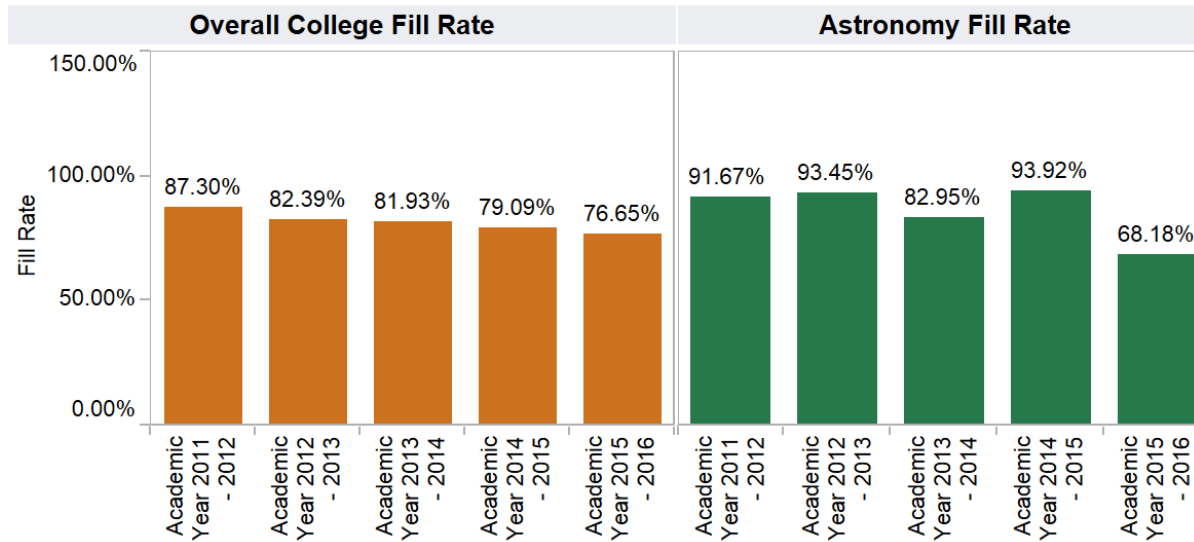
Fill Rate: The ratio of enrollments to class limits. Cross listed class limits are adjusted appropriately.  
Also, courses with zero class limits are excluded from this measure.

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## SLOCCCD Program Review Data - Student Demand (Fill Rate)

Department:  
Astronomy

Course:  
ASTR 210L



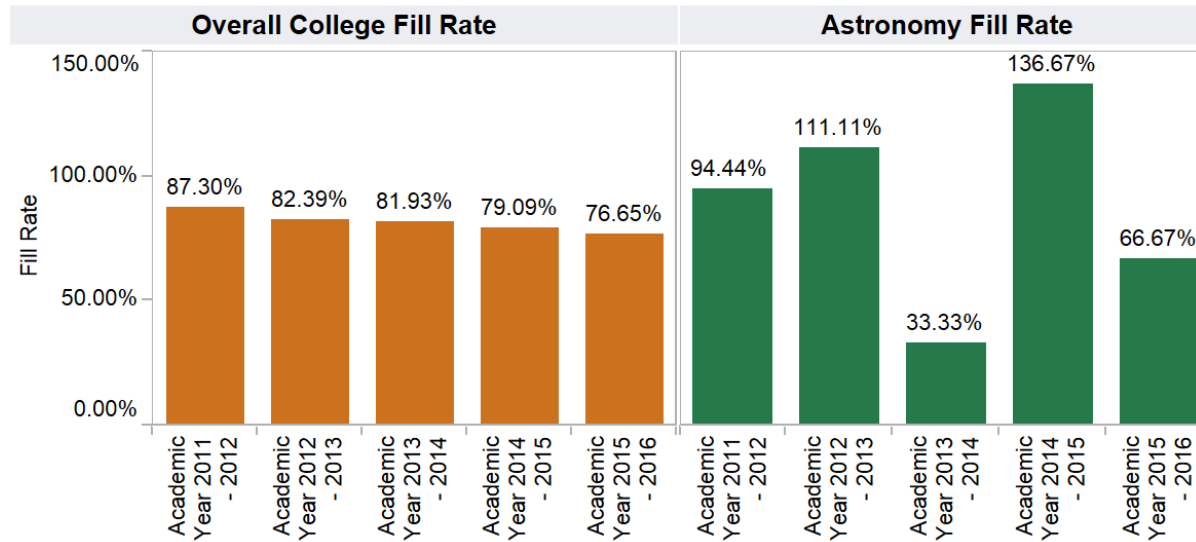
Fill Rate: The ratio of enrollments to class limits. Cross listed class limits are adjusted appropriately.  
Also, courses with zero class limits are excluded from this measure.

# INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

## SLOCCCD Program Review Data - Student Demand (Fill Rate)

**Department:**  
Astronomy

**Course:**  
ASTR 299



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.



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Overall, fill rates mirror the college's overall fill rate. The fill rate in the 2013-14 year was markedly lower than 2012-13, 2014-2015, and 2015-2016. This was due to offering one section of ASTR 210 in a three-hour, one day a week section during the day, instead of a 1.5 hour, two days a week section. Enrollment in this modified section was much lower than its historical levels, and has since been changed back to the previous 1.5 hour, two days a week scheduling for 2014-2015. Subsequently the fill rate significantly increased the next year. This 2013-14 modified section only had a slight impact on the fill rate for the adjunct ASTR 210L course, which has otherwise remained stable.

ASTR 210L fill rates in 2015-2016 have decreased, due to decreasing enrollment at the NC section. Some planning in offering ASTR 210L at NC in subsequent years will be made in order to improve enrollments there, perhaps once a year instead of twice a year.

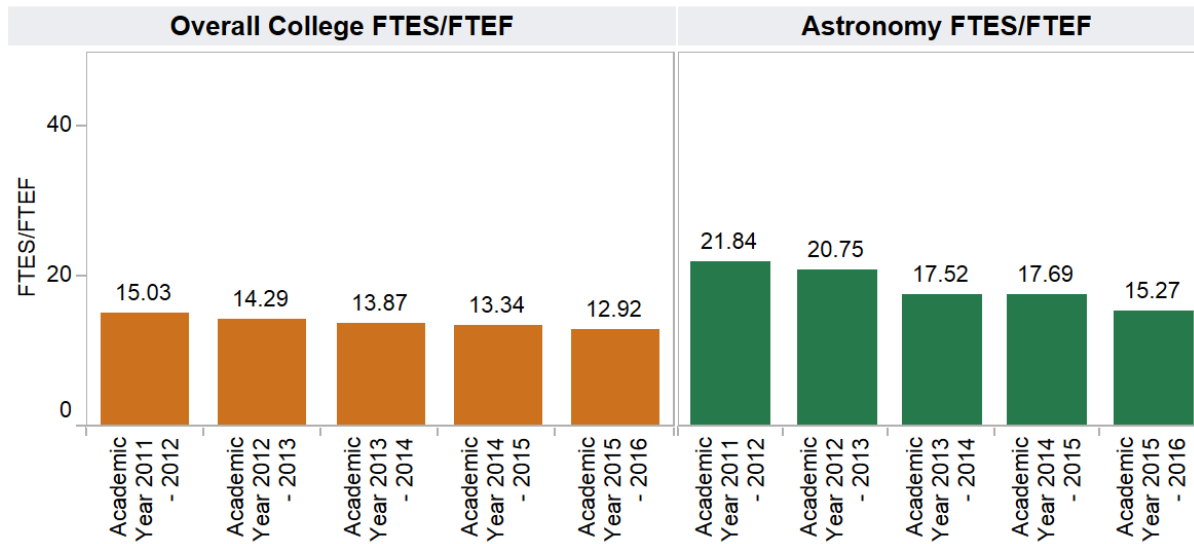
ASTR 299 fill rates have varied greatly as enrollment depends greatly on recruitment of high school students. However from 2014-2015 this course is offered as a distance-learning course that allows students outside of the district to participate (in collaboration with offsite observational facilities). As a result, the fill rates have improved.

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## SLOCCCD Program Review Data - Efficiency (FTES/FTEF)

Department:  
Astronomy

Course:  
All



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

## INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

The overall efficiency of astronomy courses is very high compared to the District efficiency. This is due to large lectures of 45-60 students in each section, and labs with enrollments of 12-28 students in each section. As discussed earlier, enrollment in ASTR 210L at NC campus has been trending downwards when offered each semester; this course will be offered once a year at NC campus in order to attempt to increase enrollment and fill rates.

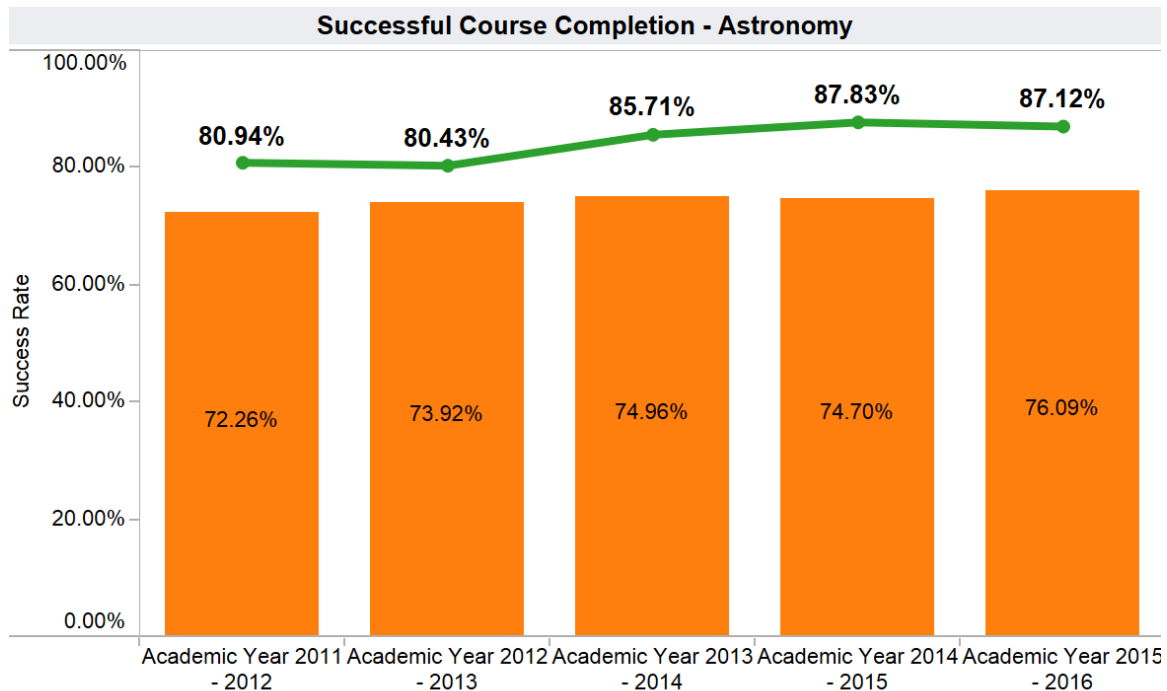
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## SLOCCCD Program Review Data: Successful Course Completion

Select Department:  
Astronomy

COURSE  
All

Legend:  
■ Department Success Rate  
■ Overall College Success Rate



**Astronomy Success Rate Table**

	Academic Year 2011 - 2012	Academic Year 2012 - 2013	Academic Year 2013 - 2014	Academic Year 2014 - 2015	Academic Year 2015 - 2016
Department Success..	80.94%	80.43%	85.71%	87.83%	87.12%
Total Enrollments	619	598	504	526	489

Success: The Percentage of student enrollments resulting in a final grade of "C" or better

## INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

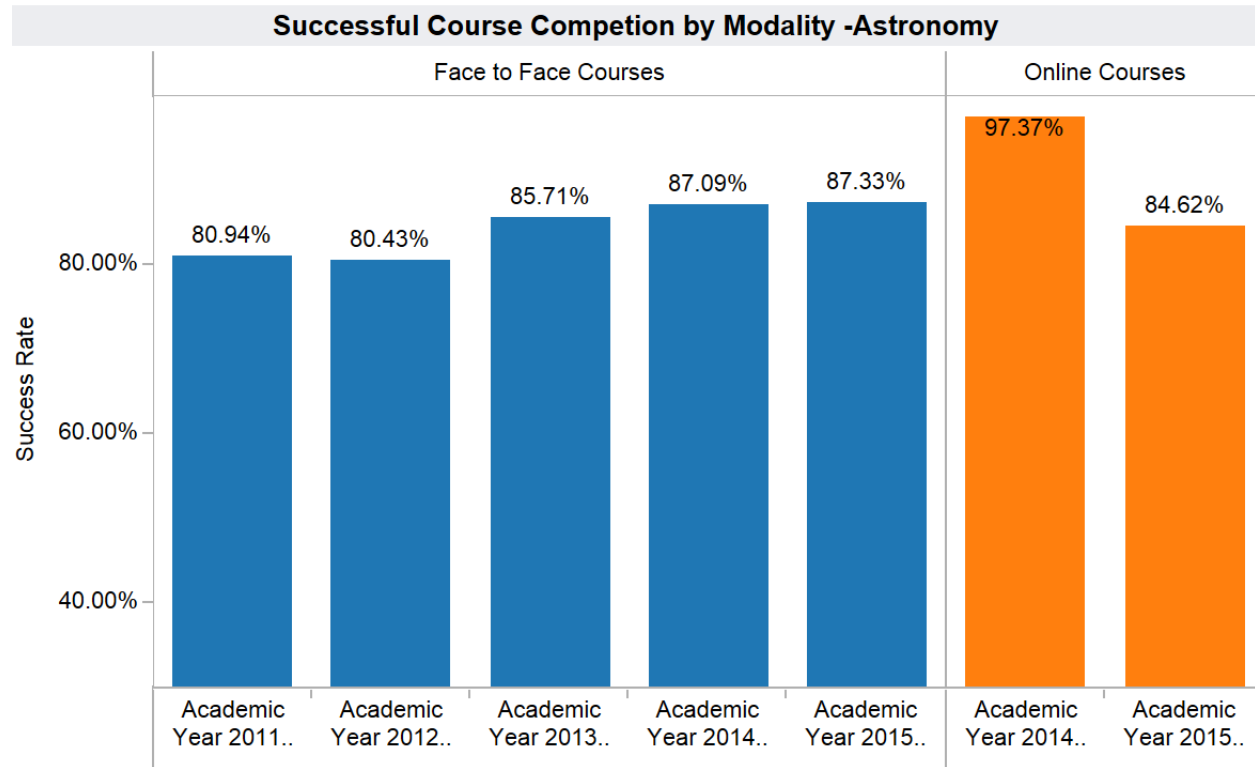
The student success rate in astronomy courses is higher than the District-wide rate, and the astronomy success rate is trending slightly higher and stabilizing in 2015-2016.

# INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

## SLOCCCD Program Review Data: Successful Course Completion

Select Department:  
Astronomy

Legend:  
■ Face to Face Courses  
■ Online Courses



Successful Course Completion by Modality Table - Astronomy						
		Academic Year 2011 - 2012	Academic Year 2012 - 2013	Academic Year 2013 - 2014	Academic Year 2014 - 2015	Academic Year 2015 - 2016
Face to Face Courses	Department Success Rate	80.94%	80.43%	85.71%	87.09%	87.33%
	Total Department Enrollments	619.0	598.0	504.0	488.0	450.0
Online Courses	Department Success Rate				97.37%	84.62%
	Total Department Enrollments				38.0	39.0

## INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

ASTR 210 and ASTR 210L are only offered in the face-to-face modality (with slight increase in success rates), while ASTR 299 is only offered as a distance-learning course (starting in 2014-2015), so there is no modality comparison within courses.

(Degrees and certificates data and analysis not applicable, as the astronomy program does not offer a degree or certificate.)

### PROGRAM OUTCOMES ASSESSMENT AND IMPROVEMENTS CHECKLIST AND NARRATIVE

#### CHECKLIST:

- ☒ SLO assessment cycle calendar is up to date:
- ☒ Date SLO assessment cycle calendar was last updated: 5/2016
- ☒ All courses scheduled for assessment have been assessed in eLumen
- ☒ Dates of last completed course assessments in eLumen : 19/02/2017
- ☐ Program Sustainability Plan progress report completed

#### Narrative:

SLO assessments for all astronomy course learning goals were made across all courses in eLumen for fall 2016. It will take a few semesters to obtain enough data to make analysis of these success rates valid.

#### 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.*

- A. New or modified plans for achieving program learning outcomes.
- B. Anticipated changes in curriculum, scheduling or delivery modality
- C. Levels, delivery or types of services
- D. Facilities changes
- E. Staffing projections
- F. Other

#### PROGRAM SUSTAINABILITY PLAN PROGRESS REPORT

**This section only needs to be completed if a program has an existing Program Sustainability Plan. Please 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	Select one

## INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

		<input type="checkbox"/> Implemented	
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.**



## INSTRUCTIONAL ANNUAL PROGRAM PLANNING WORKSHEET FOR 2017-2018

### SURVEY

Please take 15 minutes to complete the IPPR Survey. Your assessment will serve to help us make the form and process better.

Thanks,

The IPPR Committee

[Survey Link](#)