

ASTRONOMY

ISLOs, PSLOs, CSLOs, Mapping

INSTITUTIONAL STUDENT LEARNING OUTCOMES - ISLOs

ISLO 1 COMMUNICATION

1A Read

1B Listen

1C Write

1D Dialogue

ISLO 2 TECHNOLOGY AND INFORMATION COMPETENCY

2A Demonstrate Technical Literacy

2B Apply Technology

2C Access Information

2D Evaluate and Examine Information

ISLO 3 CRITICAL AND CREATIVE THINKING

3A Inquire

3B Analyze

3C Problem Solve

3D Express

ISLO 4 CITIZENSHIP

4A Ethics

4B Diversity

4C Sustainability/Global Awareness

4D Personal Responsibility

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	ASTRONOMY PROGRAM OUTCOMES - PSLOs	Related ISLOs
PSLO A	Students will demonstrate their knowledge and skill in Observational Astronomy, showing that they can correlate the observable sky to events in the cosmos.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C,4D
PSLO B	Students will explain their knowledge and skill in Celestial Navigation, evaluating the significance of important astronomical phenomena.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C,3D,4D
PSLO C	Students will operate a variety of Optical Systems, demonstrating proficiency in their use.	1A,1B,1D,2A,2B,2C,2D,3D
PSLO D	Students will use various Imaging Systems to produce high quality image data products, demonstrating overall mastery of image reduction skills.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C
PSLO E	Students analyze basic science and core physics, to discover how they apply to astronomy.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C,4C,4D
PSLO F	Students will use concepts from planetary astronomy to investigate the types of different planetary classes and other objects in the solar system.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C,4C,4D
PSLO G	Students will develop an understanding of solar physics - the sun's method of energy production, its anatomy, solar phenomena, and life history.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C,4C
PSLO H	Students will relate core concepts in basic science to stellar astronomy, assessing the various factors that are important to stellar evolution.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C
PSLO I	Students will synthesize information from various sources (classroom instruction, online resources, etc) to produce a coherent understanding of galactic/extragalactic astronomy.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C,4C,4D
PSLO J	Students will evaluate concepts in cosmology, relating concepts in underlying physics and observations to scientific frameworks of our universe's formation and evolution.	1A,1B,1C,1D,3A,3B,3C,4A,4C,4D
PSLO K	Students will critique new findings in the frontiers of astrophysics, assessing and appraising their conceptual frameworks.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C,4A,4C,4D
PSLO L	Students will investigate astrobiology, and relate concepts of life, evolution, and the universe to what can be observed.	1A,1B,1C,1D,2A,2B,2C,2D,3A,3B,3C,4A,4B,4C,4D

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No Degrees or Certificates available.

	ASTRONOMY COURSE OUTCOMES - CSLOs	Related PSLO
	ASTR 2 - Introduction to Planetary Systems	
CSLO 1	Students will demonstrate their knowledge and skill in Observational Astronomy, showing that they can correlate the observable sky to events in the cosmos.	A
CSLO 2	Students analyze basic science and core physics, to discover how they apply to astronomy.	E
CSLO 3	Students will use concepts from planetary astronomy to investigate the types of different planetary classes and other objects in the solar system.	F
CSLO 4	Students will develop an understanding of solar physics - the sun's method of energy production, its anatomy, solar phenomena, and life history.	G
	ASTR 5 - Introduction to Stars, Galaxies and the Universe	
CSLO 1	Students analyze basic science and core physics, to discover how they apply to astronomy.	E
CSLO 2	Students will relate core concepts in basic science to stellar astronomy, assessing the various factors that are important to stellar evolution.	H
CSLO 3	Students will synthesize information from various sources (classroom instruction, online resources, etc) to produce a coherent understanding of galactic/extragalactic astronomy.	I
CSLO 4	Students will evaluate concepts in cosmology, relating concepts in underlying physics and observations to scientific frameworks of our universe's formation and evolution.	J
	ASTR 7 - Life in the Universe	
CSLO 1	Students analyze basic science and core physics, to discover how they apply to astronomy.	E
CSLO 2	Students will use concepts from planetary astronomy to investigate the types of different planetary classes and other objects in the solar system.	F
CSLO 3	Students will relate core concepts in basic science to stellar astronomy, assessing the various factors that are important to stellar evolution.	H
CSLO 4	Students will investigate astrobiology, and relate concepts of life, evolution, and the universe to what can be observed.	L

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	ASTR 10 - Elementary Astronomy	
CSLO 1	Students analyze basic science and core physics, to discover how they apply to astronomy.	E
CSLO 2	Students will use concepts from planetary astronomy to investigate the types of different planetary classes and other objects in the solar system.	F
CSLO 3	Students will relate core concepts in basic science to stellar astronomy, assessing the various factors that are important to stellar evolution.	H
CSLO 4	Students will synthesize information from various sources (classroom instruction, online resources, etc) to produce a coherent understanding of galactic/extragalactic astronomy.	I
	ASTR 11 - Observational Astronomy	
CSLO 1	Students will demonstrate their knowledge and skill in Observational Astronomy, showing that they can correlate the observable sky to events in the cosmos.	A
CSLO 2	Students will explain their knowledge and skill in Celestial Navigation, evaluating the significance of important astronomical phenomena.	B
CSLO 3	Students will operate a variety of Optical Systems, demonstrating proficiency in their use.	C
CSLO 4	Students will relate core concepts in basic science to stellar astronomy, assessing the various factors that are important to stellar evolution.	H
	ASTR 14 - Astrophotography and Imaging	
CSLO 1	Students will explain their knowledge and skill in Celestial Navigation, evaluating the significance of important astronomical phenomena.	B
CSLO 2	Students will operate a variety of Optical Systems, demonstrating proficiency in their use.	C
CSLO 3	Students will use various Imaging Systems to produce high quality image data products, demonstrating overall mastery of image reduction skills.	D
	ASTR 25 - Frontiers in Astronomy	
CSLO 1	Students will synthesize information from various sources (classroom instruction, online resources, etc) to produce a coherent understanding of galactic/extragalactic astronomy.	I
CSLO 2	Students will evaluate concepts in cosmology, relating concepts in underlying physics and observations to scientific frameworks of our universe's formation and evolution.	J
CSLO 3	Students will critique new findings in the frontiers of astrophysics, assessing and appraising their conceptual frameworks.	K

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CSLO#	COURSE NUMBER: COURSE NAME	Related PSLO
	ASTR 28 - Independent Study	
CSLO 1		
CSLO 2		
CSLO 3		
CSLO#	COURSE NUMBER: COURSE NAME	Related PSLO

Y Program

ing, and Assessment Plan

Year 1		Year 2		Year 3		Year 4		Year 5		Year 6	
F 2013	S 2014	F 2014	S 2015	F 2015	S 2016	F 2016	S 2017	F 2017	S 2018	F 2018	S 2019

C - Completed, P- Planned

C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C

C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C

C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C

Y Program

ing, and Assessment Plan

Year 1		Year 2		Year 3		Year 4		Year 5		Year 6	
F 2013	S 2014	F 2014	S 2015	F 2015	S 2016	F 2016	S 2017	F 2017	S 2018	F 2018	S 2019
C	C	C	C	C	C	C	C	n/a	n/a	n/a	N/A
C	C	C	C	C	C	C	C	n/a	n/a	n/a	N/A
C	C	C	C	C	C	c	C	n/a	n/a	n/a	N/A
C	C	C	C	C	C	c	C	n/a	n/a	n/a	N/A
C	C	C	C	C	C	c	C	c	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	C	C	C	C
C	C	C	C	C	C	c	C	n/a	C	n/a	C
C	C	C	C	C	C	c	C	n/a	C	n/a	C
C	C	C	C	C	C	c	C	n/a	C	n/a	C

