Program Assessment

2019-2020

Engineering, Physical Science & Process Technology

	Math & Physical Science - Astronomy Option						
Date	Click or tap to enter a date.						
Competency # and Description	1. Use and apply physical data to solve problems						
Course	ASTR 2513 – Observatory Methods MATH 2145 –Calculus I MATH 2155 – Calculus II						
Activity	ASTR 2513 - Quiz MATH 2145 – Word problems involving derivations MATH 2155 – Word problems involving vectors.						
Measurement (attached copy of instrument with point distribution)	ASTR 2513 - Quiz MATH 2145 - Common questions assessed on a quiz MATH 2155 - Common questions assessed on a quiz						
Evaluation Criteria	ASTR 2513 - 70% pass rate on exam MATH 2145 - Students will earn 70% or better on the quiz MATH 2155 - Students will earn 70% or better on the quiz						
2015-2016 Results	ASTR 2513 Not offered MATH 2145 not collected MATH 2155 not collected						
2016-2017 Results	ASTR 2513 Not offered MATH 2145 – 7/7 (100%) of students met competency MATH 2155 – 31/35 (88.57%) of students met competency MATH 2145 – 26/35 (74.28%) of students met competency MATH 2155 – 4/7 (57.14%) of students met competency						
2017-2018 Results	ASTR 2513 - (100%) of students met competency MATH 2145 – 14/19 (73.68%) of students met competency MATH 2155 – 6/12 (50%) of students met competency MATH 2145 – 9/12 (75%) of students met competency MATH 2155 – 6/13 (46.15%) of students met competency						
2018-2019 Results	ASTR 2513 – not offered MATH 2145 – 8/16 (50%) of students met competency MATH 2155– 14/16 (87.5%) of students met competency MATH 2145 – 18/27 (66.67%) of students met competency MATH 2155 – 4/6 (66.67%) of students met competency						
2019-2020 Results							
Summary of changes for 2018-2019	ASTR 2513 – no changes at this time Math – no changes at this time						

Recommendation for changes for 2019-2020	ASTR 2513 – No changes at this time. Math - Data to be assessed in Fall with faculty.					
Recommendation for changes for 2020-2021						
Timeline for Review	Fall/spring data will be collected and reviewed in the spring and instructors from all campuses will determine needed adjustments.					
Date	Click or tap to enter a date.					
Competency # and Description	Use logical reasoning to solve problems					
Course	ASTR 2513 – Observatory Methods MATH 2145 –Calculus I MATH 2155 – Calculus II					
Activity	ASTR 2513 - Quiz MATH 2145 – Word problems involving derivations MATH 2155 – Word problems involving vectors.					
Measurement (attached copy of instrument with point distribution)	ASTR 2513 - Quiz MATH 2145 - Common questions assessed on a quiz MATH 2155 - Common questions assessed on a quiz					
Evaluation Criteria	70% pass rate on activity					
2015-2016 Results	ASTR 2513 Not offered MATH 2145 103 out of 134 – 77% MATH 2155 36 out of 39 – 92%					
2016-2017 Results	NA – ASTR 2513 not offered MATH 2145 – 7/7 (100%) of students met competency MATH 2155 – 31/35 (88.57%) of students met competency MATH 2145 – 26/35 (74.28%) of students met competency					
	MATH 2155 – 4/7 (57.14%) of students met competency					
2017-2018 Results	ASTR 2513 - (100%) of students met competency MATH 2145 – 14/19 (73.68%) of students met competency MATH 2155 – 6/12 (50%) of students met competency					
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2018-2019 Results	ASTR 2513 –not offered MATH 2145 – 8/16 (50%) of students met competency MATH 2155 – 14/16 (87.5%) of students met competency MATH 2145 – 18/27 (66.67%) of students met competency					
	MATH 2155 – 4/6 (66.67%) of students met competency					
2019-2020 Results						
Summary of changes for 2018-2019	ASTR 2513 – none at this time Math – no changes at this time					

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Recommendation for	ASTR - None at this time. Math - Data to be assessed in Fall with faculty.
changes for 2019-2020	That bata to be assessed in rail man radiaty.
Recommendation for	
changes for 2020-2021	
Timeline for Review	Fall/spring data will be collected and reviewed in the spring and instructors from all
	campuses will determine needed adjustments.
Date	Click or tap to enter a date.
	Explain evolutionary theory and its supporting principles.
Competency # and Description	5. Explain evolutionally theory and its supporting principles.
	ASTR 1523 – Planetary Science
Course	ASTR 1014 – General Astronomy
	,
Activity	ASTR 1523 – Quiz Question
	ASTR 1014 – Quiz Question
Measurement (attached	ASTR 1523 – Quiz Question
copy of instrument with	ASTR 1014 – Quiz Question
point distribution)	
Evaluation Criteria	Pass rate of 70% on each activity
2015-2016 Results	ASTR 1523 15 out of 15 – 100%
2013 2010 Results	ASTR 1014 – not collected
	ASTR 1523 17 out of 17 – 100%
2016-2017 Results	ASTR 1014 – not collected
2017-2018 Results	ASTR 1523 – 15/17 (88%) students met competency
	ASTR 1014 – not collected
2018-2019 Results	ASTR 1523 – 6 out of 8 – 75% passed
2010 2017 (Coults	ASTR 1014 – 21 out of 32 – 70 % passed.
2019-2020 Results	
2019-2020 Results	
Company of all and	Changed assessment tool and added class.
Summary of changes for 2018-2019	Changed assessment tool and added class.
	None at this time.
Recommendation for	None at this time.
changes for 2019-2020	
Recommendation for	
changes for 2020-2021	Call/anging date will be callested and regioned in the agriculture for the
Timeline for Review	Fall/spring data will be collected and reviewed in the spring and instructors from all campuses will determine needed adjustments.
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Summary of Program and Divisional Changes					
2016-2017	 Purchased several upgrades for the Mackey Planetarium for better student learning opportunities. 				

2017-2018	No changes for this year
2018-2019	Changed assessment tool
2019-2020	•

Recommendations for Program Changes					
2017-2018	Evaluate the number of graduates in the degree program to determine feasibility of retaining the program area.				
2018-2019	 Two students showed interest in pursuing astronomy at the upper division level. No recommendations at this time. 				
2019-2020	No change for the next year.				
2020-2021					

Ag, Science, & Engineering

			Program	Level Ou	utcomes ⁻	Timeline
Program Objectives – Astronomy	Course Map	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Use and apply physical data to solve problems	ASTR 2513 MATH 2145 MATH 2155	X	X	X	X	X
Use logical reasoning to solve problems	ASTR 2513 MATH 2145 MATH 2155	X	X	X	X	Х
3. Explain evolutionary theory and its supporting principles.	ASTR 1523	X	X	X	X	Х