

NEW ACADEMIC PROGRAM-STANDALONE UNDERGRADUATE MINOR ADDITIONAL INFORMATION FORM

I. MINOR DESCRIPTION— provide a marketing/promotional description for the proposed minor. Include the purpose, nature, and highlights of the curriculum, faculty expertise, etc. The description should match departmental and college websites, handouts, promotional materials, etc.

The AETI Life Sciences Education minor is designed to meet the needs of students who are interested in pursuing a leadership role in an educational setting outside of the traditional classroom environment. Students in the minor will be able to facilitate the exchange of key ideas and practices learned and developed via their major course of study. The exchange of content and ideas, with interested parties, will be facilitated in a non-formal education setting. University of Arizona graduates are highly educated in content topics that will undoubtedly help to improve their local communities. The content and focus of the minor would benefit graduates with the ability to share that information with the public through non-formal education techniques and training. The coursework will prepare graduates to lead and impact diverse communities by understanding that education happens in many formats and environments through non-formal facilitation techniques centered in communication, collaboration and creative thinking.

Completion of this minor will allow students to communicate information in a creative and effective manner. Students completing the minor will understand the fundamental concepts of andragogy and pedagogy to better deliver content focused on improving the lives of consumers in a wide variety of topics through traditional and digital formats within a nonformal setting.

The faculty are experts in leading and facilitating learning opportunities outside of the traditional classroom setting. Through the incorporation of modeling and multiple interactive learning methods the students who complete the minor will be able to utilize the methodology and planning concepts shared throughout the coursework to enhance their own ability to convey information in a fast-paced and engaging manner.

- II. MINOR JUSTIFICATION The justification for the minor comes from the numerous conversations that the faculty has had with past and current students from within the department and the college. The conversations made it very apparent that many of our past and current students would love to have a means to utilize the content knowledge gleaned from their major courses to help improve the communities where they live and work. The students share a true thirst for access to coursework that would prepare them to be able to navigate non-formal education settings and allow them to be true change agents educating the population about real-world, timely topics related to agriculture and the life sciences. Numerous stakeholders have also informed the department that many of our recent graduates are now offering short courses and professional development workshops related directly to their major courses. The training within this non-formal education minor would provide graduates with the tools needed to be highly effective and impactful presenters and educators. The Dean of the College of Agriculture has also expressed an interest in this minor as it is seen as an outlet for students within the Veterinary Science program who wish to supplement their training with the ability to provide education on a wide variety of animal husbandry and care techniques. The combination of very strong and diverse majors within the college when coupled with this new minor should provide students with a plethora of professional choices and allow them to truly serve as change agents in the greater community.
- MINOR REQUIREMENTS— complete the table below by listing the minor requirements, including minimum number of credit hours, required core, electives, and any special requirements. Note: information in this section must be consistent throughout the proposal documents (comparison charts, curricular/assessment map, etc.). Delete the EXAMPLE column before submitting/uploading.

Minimum total units required	18
Minimum upper-division units required	9
Total transfer units that may apply to minor	3
List any special requirements to declare/admission to this minor	-Meet with academic advisor within the department
(completion of specific coursework, minimum GPA, interview,	
application, etc.)	

Minor requirements. List all required minor requirements including	Core:
core and electives. Courses listed must include course prefix, number,	Complete 3 courses (9 units):
units, and title. Mark new coursework (New). Include any	AED 462, Curriculum Development (3 units)
limits/restrictions needed (house number limit, etc.). Provide	AED 438, The Teaching of Secondary School Agricultural Science
email(s)/letter(s) of support from home department head(s) for	(3 units)
courses not owned by your department.	AED 450, Total Program Development (3 units)
	Electives: Complete 6 units from the following:
	AED 301, Youth Leadership Development (3 units)
	AED 437, Methods of Facilitating Learning (3 units)
	Experiential Learning: Complete 3 units
	AED 493, Internship (3 units)
Internship, practicum, applied course requirements (Yes/No). If yes,	Yes. Complete 3 units of internship or practicum with a local
provide description.	firm:
	AED 493
Additional requirements (provide description)	No Additional Requirements
Any double-dipping restrictions (Yes/No)? If yes, provide description.	Yes – Double dipping is allowed with AED 301

IV. CURRENT COURSES—using the table below, list all existing courses included in the proposed minor. You can find information to complete the table using the <u>UA course catalog</u> or <u>UAnalytics</u> (Catalog and Schedule Dashboard> "Printable Course Descriptions by Department" On Demand Report; right side of screen). If the courses listed belong to a department that is not a signed party to this implementation request, upload the department head's permission to include the courses in the proposed minor and information regarding accessibility to and frequency of offerings for the course(s). Upload letters of support/emails from department heads to the "Letter(s) of Support" field on the UAccess workflow form. Add rows to the table, as needed.

Course prefix and	Units	Title	Course Description	Pre-requisites	Modes of	Typically	Dept signed
number (include					delivery (online,	Offered	party to
cross-listings)							

					in-person, hybrid)	(F, W, Sp, Su)	proposal? (Yes/No)
AED 462	3	Curriculum Development	Prepares student teachers for their year in preservice. Provides introductory material on curriculum development, record books and experiential education, and the student organization as it relates to agricultural education.	None	In-person	Sp	No
AED 438	3	The Teaching of Secondary School Agricultural Science	Specific methods, objectives, organization of subject matter, and evaluation in the various subjects.	AED 462	In-person	F	No
AED 450	3	Total Program Development	This course is designed to prepare preservice agriculture teachers to work with the intracurricular and peripheral programs that are an integral part of the three circle model of agricultural education. Course content will include: experiential learning, student organizations, and school and community relationships in a formal education setting.	None	In-person	Sp	No
AED 493	3	Internship	Specialized work on an individual basis, consisting of training and practice in actual service in a technical, business, or governmental establishment.	None	In-Person, Online, Hybrid	F, W, Sp, Su	No
AED 301	3	Youth Leadership Development	Characteristics of effective advisors, leadership styles, strategies for the management and organization of youth groups in agriculture, practice in leadership development techniques.	None	In-Person	F	No
AED 437	3	Methods of Facilitating Learning	Students will plan, facilitate, and assess learning experiences for a myriad of nonformal teaching/learning situations. Students will be able to identify and apply resources and methods for facilitating learning with multiple audiences. Students will also learn how to develop objectives and assessments,	None	In-Person	Sp	No

	as well as design materials to use in the		
	facilitation process.		

V. NEW COURSES NEEDED – using the table below, list any new courses that must be created for the proposed program. If the specific course number is undetermined, please provide level (ie CHEM 4**). Add rows as needed. Is a new prefix needed? If so, provide the subject description so Curricular Affairs can generate proposed prefix options.

Course prefix and number (include cross- listings)	Units	Title	Course Description	Pre- requisites	Modes of delivery (online, in-person, hybrid)	Status*	Anticipated first term offered	Typically Offered (F, W, Sp, Su)	Dept signed party to proposal? (Yes/No)	Faculty members available to teach the courses
N/A										

^{*}In development (D); submitted for approval (S); approved (A)

Subject description for new prefix (if requested). Include your requested/preferred prefix, if any:

VI. FACULTY INFORMATION- complete the table below. If UA Vitae link is not provided/available, attach a short CV (2-3 pages) to the end of the proposal or upload to the workflow form. UA Vitae profiles can be found in the <u>UA directory/phonebook</u>.

Faculty Member	Involvement	UA Vitae link or "CV attached"
Dr. Amber Rice	Teach AED 462; AED 450; AED 437	CV attached

Mr. Quintin Molina	Teach AED 301; AED 438 Supervise AED 493 Internship	CV attached
Mr. Breanna Watkins	Advise Students within the Minor	CV attached

VII. STUDENT LEARNING OUTCOMES AND CURRICULUM MAP—describe what students should know, understand, and/or be able to do at the conclusion of this minor. Work with Office of Instruction and Assessment to create a curricular map using Taskstream. Include your curricular map in this section (refer to Appendix A for sample Curriculum Map generated using Taskstream).

Curriculum Map:

Courses and	Minor Life Sc d Activities Mapp	ience Education	• •	•	come Set	
		Outcom				
	Outcome 1: Identify and incorporate a wide variety of instructional resources and materials to develop and design curriculum that meets the needs of the learner.	Outcome 2 Identify and implement key instructional methodologies to engage learners using various activities and engagement strategies for all learners	Outcome 3 Evaluate and assess the progress of learners in the non-formal learning environment based on sound measurement metrics.	Outcome 4 Enhance community development through community relationships and community based organizations.	Outcome 5 Utilize key leadership development concepts to create community based non-formal education environments	Outcome 6 Engage in a content specific experiential learning internship experience.
Courses and Learning Activities						
AED 462						
Curriculum Development	_	_	_			
AED 438	P, A	P	P			

Teaching of Secondary School						
Agricultural Science						
AED 450				I, P, A	I, <mark>P</mark> , <mark>A</mark>	I, <mark>P</mark>
Total Program Development						
AED 493						P, A
Internship						
AED 301				I, P, <mark>A</mark>	I, P, A	
Youth Leadership Development						
AED 437	I, P, A	I, P, A	I, P, A			
Methods of Facilitating Learning						
I = Introduced; P = Practiced; A = A	ssessed			•		

VIII. ASSESSMENT PLAN FOR STUDENT LEARNING- using the table below, provide a schedule for program assessment of intended student learning outcomes 1) while students are in the program and 2) after completion of the minor. Add rows as needed. Delete EXAMPLE row.

Learning Outcomes	Sources(s) of Evidence	Assessment Measures	Data Collection Points
Outcome 1: Identify and incorporate a wide variety of instructional resources and materials to develop and design curriculum that meets the needs of the learner.	Course-embedded assessments Essays Student Presentations	Exams, papers, presentations, discussions Curriculum Presentation Workshop Design & Presentation	• End of AED 437; AED 438
Outcome 2: Identify and implement key instructional methodologies to engage learners using various activities and engagement strategies for all learners	Course-embedded assessments Essays Student Presentations	 Early Field Experiences Workshop Design & Presentation Curriculum Presentations 	• End of AED 462; 438; 437
Outcome 3: Evaluate and assess the progress of learners in the non-formal learning environment based on sound measurement metrics.	Course-embedded assessments Essays Student Presentations	 Exams, papers, presentations, discussions Assessment Project – Formative/Summative Curriculum Presentations 	• End of; 462; 438; 437

		Workshop Evaluation		
Outcome 4: Enhance community development through community relationships and community based organizations.	Course-embedded assessments Essays Student Presentations	Personal Evaluation of Leadership Skills Group Project on Key Leadership Traits Community Needs Assessment Experiential Learning Content Development		
Outcome 5: Utilize key leadership development concepts to create community based non- formal education environments	Course embedded assessments Exams and Presentations Early Field Experiences/Observations	Personal Evaluation of Leadership Skills Group Project on Key Leadership Traits Community Needs Assessment Experiential Learning Content Development	• End of; AED 301; AED 450; AED 493	
Outcome 6: Engage in a content specific experiential learning internship experience.	Internship Agreement Packet Mid & Final Intern Evaluation from Packet Final Internship Evaluation	Internship Experience Blog Posts Summative Internship Experience Portfolio Final Presentation of Internship Experience	End of Each Course End of ALC/AED/AGTM 493 Course	

IX. ANTICIPATED STUDENT ENROLLMENT-complete the table below. What concrete evidence/data was used to arrive at the numbers?

5-YEAR PROJECTED ANNUAL ENROLLMENT					
	1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year
Number of	6	8	10	15	20
Students					

Data/evidence used to determine projected enrollment numbers:

The projections are calculated utilizing current student interest and conversations/meetings between current faculty and students with the College of Agriculture and Life Sciences who have expressed interest in this proposed minor.

X. ANTICIPATED MINORS AWARDED- complete the table below, beginning with the first year in which minors will be awarded. How did you arrive at these numbers? Take into consideration departmental retention rates.

PROJECTED	MINORS	AWARDED	ΔΝΝΙΙΔΙΙΥ
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	1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year
Number of	0	5	8	12	16
Minors					

Data/evidence used to determine number of anticipated minors awarded annually:

The projections are calculated utilizing current interest from students within the college and the increase in number is related to the ability to market the minor once it has been approved. The department's retention rate has remained high over the last four years the time to completion for current major and minor degrees has been on par with those of similar degree programs.

XI. PROGRAM DEVELOPMENT TIMELINE- describe plans and timelines for 1) marketing the minor and 2) student recruitment activities.

The Department of Agricultural Education, Technology & Innovation plans to begin marketing the minor in the fall 2020 semester. The marketing plan will consist of email blasts to multiple advisor groups throughout the UArizona campus as well as presentations on the minor within current AED, AGTM and ALC courses. The department will also share the information during tabling evens such as the Meet Your Major event in October and the numerous College of Agriculture and Life Sciences open houses, as well as share the information via the college recruiters who visit multiple high schools during both the fall and spring semesters. The plan is to begin enrolling students into the minor during the spring 2021 academic advising sessions beginning in Fall 2021.

XII. DIVERSITY AND INCLUSION-describe how you will recruit diverse students and faculty to this minor. In addition, describe retention efforts in place or being developed in order to retain students.

The department consists of an extremely diverse faculty which encompasses a true desire to provide learners with a holistic approach to teaching and learning. The recruitment plan will engage students from many diverse majors and will bring students in from numerous colleges across our diverse campus. The fact that the minor is designed to enhance the learning that occurs within the student's chosen major grants tremendous opportunity for diversity of not only the students involved but the streams of thoughts and ideas each unique student will bring to the minor.

Retention of students will incorporate many facets of inclusion to help maintain a consistent connection with the students

enrolled within the minor. The department will utilize multiple digital platforms to stay connected to students and is extremely integrated within multiple student organizations within the college and university system that provides students with diverse options for finding and maintaining a connection to the minor and the department. The students within the minor will be provided with continuous access to advising as well as the faculty who are engaged in the coursework within the minor. The goal of the department is to provide and holistic and inclusive environment that all but guarantees student success.



BUDGET PROJECTION FORM

	Projected				
Budget Contact Person:	1st Year	2	2nd Year	3rd Year	
	2021- 2022	20)22 - 2023	2023 - 20	24
METRICS					
Net increase in annual college enrollment UG	1	.0	15		15
Net increase in college SCH UG	18	30	270		270
Net increase in annual college enrollment Grad	0		0	0	
Net increase in college SCH Grad	0		0	0	
Number of enrollments being charged a Program Fee	0		0	0	
New Sponsored Activity (MTDC)	0		0	0	
Number of Faculty FTE	0		0	0	
FUNDING SOURCES					
Continuing Sources					
UG RCM Revenue (net of cost allocation)	0		0	0	
Grad RCM Revenue (net of cost allocation)	0		0	0	
Program Fee RCM Revenue (net of cost allocation)	0		0	0	
F and A Revenues (net of cost allocations)	0		0	0	
UA Online Revenues	0		0	0	
Distance Learning Revenues	0		0	0	
Reallocation from existing College funds (attach description)	0		0	0	
Other Items (attach description)	0		0	0	
Total Continuing		- \$		\$	
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One-time Sources					
College fund balances	0		0	0	
Institutional Strategic Investment	0		0	0	
Gift Funding	0		0	0	
Other Items (attach description)	0		0	0	
Total One-time	\$	- \$	-	\$	-
TOTAL SOURCES	\$	- \$	-	\$	-
EXPENDITURE ITEMS					
Continuing Expenditures					
Faculty		0	0		0
Other Personnel		0	0		0
Employee Related Expense		0	0		0
Graduate Assistantships		0	0		0
Other Graduate Aid		0	0		0
Operations (materials, supplies, phones, etc.)		0	0		
Additional Space Cost		0	0		0
Other Items (attach description)		0	0		0
Total Continuing	\$	- \$	-	\$	-
One-time Expenditures					
Construction or Renovation		0	0		0
Start-up Equipment		0	0		0
Replace Equipment		0	0		0
Library Resources		0	0		0
Other Items (attach description)		0	0		0
Total One-time	\$	- \$		\$	
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TOTAL EXPENDITURES	\$	- \$	-	\$	-