



# New Academic Program Workflow Form

## General

**Proposed Name: Clinical Research Coordination**

Transaction Nbr: 00000000000214

Plan Type: Specialization

Academic Career: Undergraduate

Degree Offered: Undergraduate Certificate

Do you want to offer a minor? N

Anticipated 1st Admission Term: Fall 2024

## Details

Department(s):

### MDTC

DEPTMNT ID	DEPARTMENT NAME	HOST
0750	Emergency Medicine	Y

Campus(es):

### MAIN

LOCATION	DESCRIPTION
TUCSON	Tucson

**Admission application terms for this plan:** Spring: Y Summer: N Fall: Y

**Plan admission types:**

Freshman: N Transfer: Y Readmit: Y Graduate: N

Non Degree Certificate (UCRT only): N

Other (For Community Campus specifics): Y

Students are required to have 2nd year standing, at least a 3.0 cumulative GPA, and have taken at least 2 science courses connected to the active studies within the department. Preference for PSIO 201 or equivalent.

**Plan Taxonomy:** 51.0719, Clinical Research Coordinator.

Program Length Type: Program Length Value: 0.00

Report as NSC Program:

SULA Special Program:

**Print Option:**

Diploma: Y Certificate in Clinical Research Coordination

Transcript: Y Certificate in Clinical Research Coordination

**Conditions for Admission/Declaration for this Major:**

Students are required to have 2nd year standing, at least a 3.0 cumulative GPA, and have taken at least 2 science courses connected to the active studies within the department. Preference for PSIO 201 or equivalent.

**Requirements for Accreditation:**

No accreditation is required for this certificate

**Program Comparisons**

**University Appropriateness**

This program leverages the clinical agreement with Banner Health at the University Medical Center and The University of Arizona, making it accessible to students in terms of location, access to clinical research hours, understanding direct healthcare careers, and professional preparation in clinical research coordination. For any student interest in a research or direct patient healthcare career, this certificate should be a part of their Wildcat Journey.

**Arizona University System**

NBR	PROGRAM	DEGREE	#STDNTS	LOCATION	ACCRDT
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**Peer Comparison**

The UA program is an undergraduate focused certificate while ASU and Duke's are both graduate level. Experience in the Emergency Department is a differentiator for our program and students will spend approximately 150 hours in the Banner UMC ED throughout the certificate. The focus on Emergency Medicine is another differentiator among these programs.

The certificate leverages our clinical association with Banner University Medical Center - Tucson and South Campus, allowing our students to observe and enroll patients in clinical studies in accordance with their enrollment processes. These comparative programs learn about the theory behind doing what our students will experience throughout the certificate courses.

## Resources

### Library

Acquisitions Needed:

Text is already offered within the Library Resources

### Physical Facilities & Equipment

Existing Physical Facilities:

Nothing is needed. A classroom in Health Sciences is needed and reserved for in-person components through Fall 2024.

Additional Facilities Required & Anticipated:

None anticipated

### Other Support

Other Support Currently Available:

Maintaining the clinical agreement with Banner Health is critical to our operations of the course and the certificate proposal

Other Support Needed over the Next Three Years:

None

## Comments During Approval Process

2/1/2024 6:06 PM

JGAITHER

Comments
Approved.

3/19/2024 4:44 PM

MELANIECMADDEN

Comments
Approved.

3/20/2024 9:27 AM

DHERRING

Comments
Approved.



## NEW CERTIFICATE PROPOSAL: Undergraduate Certificate in Clinical Research

### I. CERTIFICATE DESCRIPTION

The certificate program is designed for students who are new to clinical research or seeking to enter a related field. Students in the program will gain a foundational understanding of clinical research coordination, with a focus on gaining competencies and skills needed to begin a career as a Clinical Research Coordinator (CRC). Students will develop competencies in preparing and submitting required documentation; recruiting, screening and enrolling research human participants; and performing follow-up activities. Students will also gain hands-on experience by participating in ongoing research studies.

The program was developed in accordance with the standards of the Society for Clinical Research Associates (SOCRA) and the Association of Clinical Research Professionals (ACRP). This UA Certificate prepares graduates for national certification examinations offered by these organizations.

### NEED FOR THE CERTIFICATE/JUSTIFICATION

Quality research coordinators are important to clinical trial success. According to a report from the Society of Clinical Research Professionals, the demand for clinical trials is growing as the pool of clinical research associates and other trial workforce professionals is shrinking. There were about 56,700 jobs for Clinical Research Coordinator in 2016 (in the United States). New jobs are being produced at a rate of 9.9% which is above the national average. The Bureau of Labor Statistics predicts 5,600 new jobs for Clinical Research Coordinator by 2026. There will be an estimated 5,200 positions for Clinical Research Coordinator per year.

Currently there is not an undergraduate level certificate program in Clinical Research at the University of Arizona. This program would allow students to gain the necessary knowledge to pursue a career in clinical research. Current programs at the University of Arizona are aimed at clinical translational scientists and graduate students. This program would also prepare undergraduate students to gain critical knowledge in clinical research to prepare them for future success in clinical and translational science research.

This certificate would also provide more opportunities for students to gain needed hours in clinical or research experiences making them more competitive applicants for Medical School, Physician Assistant School, or Nursing School.

### II. PROGRAM AFFILIATION

The majority of courses required for this certificate program are currently offered through the Undergraduate Degree Program in Emergency Medical Services (EMS). These courses are offered on the main campus and based out of the College of Medicine, Department of Emergency Medicine. This new certificate program will include ongoing collaboration with MATH, SBS, EPID, BIOS and BME where student will complete one course in biostatistics.

### III. CERTIFICATE REQUIREMENTS

#### UNDERGRADUATE CERTIFICATE

Minimum total units required	12
Minimum upper division units	9
Total transfer units that may apply to the certificate. <i>Note: A minimum of six (6) units used to complete the certificate must be University credit.</i>	3
Pre-admissions expectations (i.e., academic training to be completed prior to admission)	Students must have a minimum 3.0 GPA and demonstrated successful completion of science coursework. Preference for completion of PSIO 201. 2 <sup>nd</sup> year standing.
Certificate requirements. List all certificate requirements including core and electives. Courses listed must include <b>course prefix, number, units, and title. Mark new coursework (New)</b> . Include any limits/restrictions needed. Provide email(s)/letter(s) of support from home department head(s) for courses not owned by your department.	<p>Complete 9 units of core coursework:</p> <ul style="list-style-type: none"> <li>- EMD 482 (3) Introduction to Research Associate Program (<b>New number requested, currently using EMD 396</b>)</li> <li>- EMD 493D (3) Research Associate Internship</li> <li>- EMD 491D (3) Research Associate Preceptorship</li> </ul> <p>Complete 3 units from options below:</p> <p>BIOS 376 (3) Introduction to Biostatistics          EPID 309 (3) Introduction to Epidemiology          MATH 263 (3) Introduction to Statistics and Biostatistics          SBS 200 (3) Introduction to Statistics for the Social Sciences          BME 376 (3) Biomedical Statistics</p>
Internship, practicum, applied course requirements (Yes/No). If yes, provide description.	Yes. Students complete 3 units of a research associate internship and 3 units of a research associate preceptorship
Any double-dipping restrictions (Yes/No)? If yes, provide description.	Yes, students may apply 6 units towards the major or 3 towards the minor.
Additional requirements (provide description)	Students must complete the required presentation for the preceptorship.

IV. CURRENT COURSES

Course prefix and number (include cross-listings)	Units	Title	Pre-requisites	Modes of Delivery (online, in-person, hybrid)	Campus and Location Offered	Dept signed party to proposal? (Yes/No)
EMD 482	3	Introduction to the Research Associate Program	2 <sup>nd</sup> year standing, PSIO 201 preferred	hybrid	Main Campus	Yes
EMD 493D	3	Research Associate Program Internship	EMD 482	hybrid	Main Campus	Yes
EMD 491D	3	Research Associate Program Preceptorship	EMD 493D	hybrid	Main Campus	Yes
BIOS 376 or BME 376 or EPID 309 or MATH 263 or SBS 200	3 3 3 3 3	Introduction to Biostatistics Biomedical Statistics Introduction to Epidemiology Introduction to Statistics and Biostatistics Introduction to Statistics for the Social Sciences	MATH 108 or 112 or higher Adv Stdg: Engineering & MATH 129 MATH 108, 112, or higher MATH 108 or 112 or higher or test scores MATH 107, 108, or 112 or higher or test scores	In-Person & Fully Online In-Person In-Person & Fully Online In-Person & Fully Online In-Person & Fully Online	Main Campus	Yes Requested Yes Yes Yes

V. Learning Outcomes

Undergraduate Certificate in Clinical Research Coordination

<b>Learning Outcome #1:</b> Demonstrate proficiency in clinical research design and conduct within regulatory and ethical guidelines.
<b>Concepts:</b> study design and study protocols, the general roles and responsibilities of the study personnel, and the required documentation for best practices in a clinical trial.
<b>Competencies:</b> Conduct clinical research studies following relevant privacy laws and human subjects' protections.
<b>Learning Outcome #2:</b> Demonstrate the ability to recruit and enroll patients into clinical research trials.

<b>Concepts:</b> subject recruitment and retention processes, regulatory and ethical informed consent process, elements, and purpose of good clinical practice.
<b>Competencies:</b> Demonstrate the ability to perform study recruitment, through participation in ongoing clinical research studies, under the supervision of primary investigators and clinical research coordinators.
<b>Learning Outcome #3</b> Demonstrate proficiency in monitoring a clinical study
<b>Concepts:</b> monitoring process and the CRC's role in supporting monitoring, types of adverse events (AEs) and processes for capturing, assessing, and reporting AEs
<b>Competencies:</b> working under the supervision of clinical research coordinators, participate in clinical research trial monitoring and site visits.

### Curriculum Map

	Statistics	EMD 482	EMD 493D	EMD 491D
LO #1: Demonstrate proficiency in clinical research design and conduct within regulatory and ethical guidelines.	I	I	R	M
LO #2: Demonstrate the ability to recruit and enroll patients into clinical research trials.		I	R	M
LO #3: Demonstrate proficiency in monitoring a clinical study		I	R	M

## VI. CONTACTS AND ADMINISTRATION

### UNDERGRADUATE (delete if n/a)

- a. List the name and contact information for the primary point of contact for the certificate:

Steve Morrison  
smorriso@arizona.edu  
520-626-1187

- b. List the name and contact information for the person or persons who will serve in the role of Director of Undergraduate Studies (DUS) for the certificate (this is not always the same as the DUS for affiliated programs or head of the managing academic unit.):

Amber Rice, MD  
520-626-2241

- c. If known, list the members of the certificate oversight committee for this certificate. Note: undergraduate certificate oversight committees shall consist of a minimum of 3 members, 2 of which are faculty and at least one of the 2 is participating faculty in the certificate program. The oversight

committee is responsible for 1) qualifications of participating faculty, 2) coordination of admissions recommendations with the Office of Admissions, and 3) curricular changes:

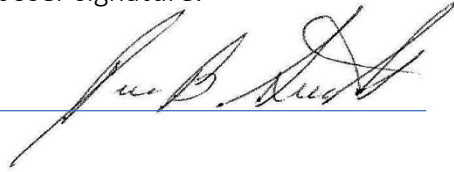
Josh Gaither, MD  
Amber Rice, MD  
Steve Morrison, MBA

**VII. REQUIRED SIGNATURES**

Program Director/Main Proposer (print name and title): Joshua B. Gaither, EMS Degree Program Director

Program Director/Main Proposer signature:

Date: 11/27/23



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Department Head (print name and title): Samuel M. Keim, Chair of the Department of Emergency Medicine

Department Head's signature:

Date: 11/27/23

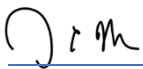


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Associate/Assistant Dean (print name): Jason Marr, Deputy Dean Finance and Business Affairs, College of Medicine-Tucson

Associate/Assistant Dean's signature:

Date: 11/27/23



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Dean (print name): Michael M.I. Abecassis, MD, MBA, Iovanna C. Lopez Dean, College of Medicine – Tucson

Dean's signature:

Date: 11/27/23



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For use by Curricular Affairs (Undergraduate):

Committee	Approval date
APS	
Undergraduate Council	
Undergraduate College Academic Administrators Council	

For use by Curricular Affairs (Graduate):

Committee	Approval date
GPERC	
Graduate College Academic Administrators Council	



**New Academic Program  
PEER COMPARISON**

Program name, degree, and institution	Undergraduate Certificate in Clinical Research Coordination	Clinical Research Certificate - Duke University	Clinical Research Management Certificate – Arizona State University
Current number of students enrolled		Not listed	Not listed
Program Description	<p>The certificate program is designed for students who are new to clinical research or seeking to enter a related field. Students in the program will gain a foundational understanding of clinical research coordination, with a focus on gaining competencies and skills needed to begin a career as a Clinical Research Coordinator (CRC). Students will develop competencies in preparing and submitting required documentation; recruiting, screening and enrolling research human participants; and performing follow-up activities. Students will also gain hands-on experience by participating in ongoing research studies.</p> <p>The program was developed in accordance with the standards of</p>	<p>The Academic Core in Clinical Research or the "Certificate option" offers students a one-year didactic experience that enhances their clinical research skills. The certificate requires that students complete the five core courses (CRP 241, 242, 245, 253, and 254) that are required for the degree track. As with all options within CRTP, the certificate program is designed for part-time study, which allows the fellow/student to integrate the program's academic program with clinical training.</p> <p>Certificate candidates have the option of switching to the degree option and</p>	<p>The clinical research management certificate is designed for professionals looking to increase their knowledge of clinical research and gain a solid foundation as they advance their careers. In this program, you'll learn about clinical research regulations, ethics, operations and data management. You'll also learn to use this information to drive clinical progress that benefits patients' health.</p> <p>The clinical research certificate is an ideal way for professionals to learn about the clinical research business. This includes the financial practices and management of drug, biological and device trials.</p> <p>To be eligible for this program, you must have completed six months of clinical research experience.</p>

	the Society for Clinical Research Associates (SOCRA) and the Association of Clinical Research Professionals (ACRP). This UA Certificate prepares graduates for national certification examinations offered by these organizations.	applying their coursework toward the degree requirements.	
Target Careers	Clinical Research, Physician, Nurse, Physician Assistant, EMS	Clinical Research Coordinators, Physicians, Nurses,	Clinical Research Coordinators, Physicians, Nurses, Drug researchers, Device researchers
Emphases? (Yes/No) List, if applicable	No	No	No
Minimum # of units required	12	16	Not listed
Level of Math required (if applicable)	Statistics	NA	NA
Level of Second Language required (if applicable)	No	NA	NA
Pre-Major? (Yes/No) If yes, provide requirements.	No	No, Students may opt to use certificate towards their degree	No
Special requirements to declare/gain admission? (i.e. pre-requisites, GPA, application, etc.)	Students must have a minimum 3.0 GPA and demonstrated successful completion of science coursework. Preference for completion of PSIO 201. 2 <sup>nd</sup> year standing.	CV and transcripts. Student status required	<ol style="list-style-type: none"> <li>1. Cumulative GPA of 3.0 from Bachelor's degree</li> <li>2. Graduate admission application and application fee.</li> <li>3. Official transcripts.</li> <li>4. Personal statement.</li> <li>5. Writing prompt answering clinical trial research questions.</li> <li>6. Up-to-date curriculum vitae or resume.</li> </ol>

			<ul style="list-style-type: none"> <li>7. Three online references.</li> <li>8. Proof of English proficiency (for students whose first language isn't English).</li> <li>9. Proof of six months of experience in the conduction of clinical research.</li> </ul>
<p>Internship, practicum, or applied/experiential requirements? If yes, describe.</p>	<p>Yes, students will complete a 3 unit Internship and a 3-unit preceptorship. Students complete approximately 150 hours of clinical study monitoring in the Banner UMC Emergency Department across the 3 EMD courses</p>	No	No

Additional questions:

1. How does the proposed program align with peer programs? Briefly summarize the similarities between the proposed program and peers, which could include curriculum, overall themes, faculty expertise, intended audience, etc.

Alignment of curriculum in statistics and clinical research coordination practices are consistent among all three programs. Preparation towards optional professional certificate are consistent across our program and Duke's. The professional organization's associated with future potential professional certification are different though. Duke focuses on NIH certification while we focus on SOCRA or ACRP.

2. How does the proposed program stand out or differ from peer programs? Briefly summarize the differences between the proposed program and peers, which could include curriculum, overall themes, faculty expertise, intended audience, etc.

The UA program is an undergraduate focused certificate while ASU and Duke's are both graduate level. Experience in the Emergency Department is a differentiator for our program and students will spend approximately 150 hours in the Banner UMC ED throughout the certificate. The focus on Emergency Medicine is another differentiator among these programs.

3. How do these differences make this program more applicable to the target student population and/or a better fit for the University of Arizona?

The certificate leverages our clinical association with Banner University Medical Center – Tucson and South Campus, allowing our students to observe and enroll patients in clinical studies in accordance with their enrollment processes. These comparative programs learn about the theory behind doing what our students will experience throughout the certificate courses.



Name of Proposed Program or Unit: Certificate in Clinical Research Coordination

Budget Contact Person: Steve Morrison

	Projected		
	1st Year	2nd Year	3rd Year
	AY25	AY26	AY27

METRICS			
Net increase in annual college enrollment UG	155	171	188
Net increase in college SCH UG	465	512	563
Net increase in annual college enrollment Grad	-	-	-
Net increase in college SCH Grad	-	-	-
Number of enrollments being charged a Program Fee	-	-	-
New Sponsored Activity (MTDC)			
Number of Faculty FTE			

\* enrollment in Fall + Spring RA1, RA2, & RA3  
\*Assumption: 10% program growth annually with South Campus expansion

**FUNDING SOURCES**

Continuing Sources

UG AIB Revenue	58,125	63,938	70,331	\$125/SCH
Grad AIB Revenue				
Program Fee Revenue (net of revenue sharing)				
F and A AIB Revenues				
Reallocation from existing College funds (attach description)				
Other Items (attach description)				
<b>Total Continuing</b>	<b>\$ 58,125</b>	<b>\$ 63,938</b>	<b>\$ 70,331</b>	

One-time Sources

College fund balances				
Institutional Strategic Investment				
Gift Funding				
Other Items (attach description)				
<b>Total One-time</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	
<b>TOTAL SOURCES</b>	<b>\$ 58,125</b>	<b>\$ 63,938</b>	<b>\$ 70,331</b>	

**EXPENDITURE ITEMS**

Continuing Expenditures

Course Instruction	43,061	43,061	43,061
Overhead	7,750	6,250	6,250
Other Items (attach description)			
<b>Total Continuing</b>	<b>\$ 50,811</b>	<b>\$ 49,311</b>	<b>\$ 49,311</b>

One-time Expenditures

Construction or Renovation			
Start-up Equipment			
Replace Equipment			
Library Resources			
Other Items (attach description)			
<b>Total One-time</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

**TOTAL EXPENDITURES**

<b>TOTAL EXPENDITURES</b>	<b>\$ 50,811</b>	<b>\$ 49,311</b>	<b>\$ 49,311</b>
<b>Net Projected Fiscal Effect</b>	<b>\$ 7,314</b>	<b>\$ 14,626</b>	<b>\$ 21,020</b>



THE UNIVERSITY OF ARIZONA  
COLLEGE OF SCIENCE

Mathematics

617 N. Santa Rita Avenue  
Tucson, Arizona 85721  
[www.math.arizona.edu](http://www.math.arizona.edu)

November 19, 2023

Executive Director  
Academic/Curricular Affairs  
University of Arizona

RE: Certificate in Clinical Research

Dear colleagues,

I am writing to express the support of the Department of Mathematics for the proposed new certificate in Clinical Research to be offered by the Department of Emergency Medicine in the College of Medicine Tucson. In particular, the Math Department supports the inclusion of the following course as an elective for the new degree:

Math 263 Introduction to Statistics and Biostatistics (3 units)

We expect to offer this course each fall and spring, and we expect to be able to accommodate the additional students without any difficulties. Normal prerequisites and registration priorities will apply.

Sincerely,

Douglas Ulmer  
Professor and Head

**From:** [Ehiri, John E - \(jehiri\)](#)  
**To:** [Duran, Lynette A - \(laduran\)](#); [Morrison, Steve - \(smorriso\)](#)  
**Subject:** RE: Request to Include courses in Certificate proposal  
**Date:** Tuesday, November 21, 2023 4:13:38 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

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Thank you for this, Lyn, and Steve.

The request to include BIOS 376 and EPID 309 is approved. Let us know if our further attention is needed.

Happy Thanksgiving.  
John

.....  
John Ehiri, Ph.D., MPH, MSc (Econ.)  
Professor  
Senior Associate Dean, Academic & Faculty Affairs  
1295 N. Martin Ave.  
Suite A317H  
Tucson, AZ 85724, USA  
Email: [jehiri@arizona.edu](mailto:jehiri@arizona.edu)  
Phone: 520-626-1355

**PROMOTE \* PREVENT \* PROTECT**



THE UNIVERSITY OF ARIZONA

Mel & Enid Zuckerman  
College of Public Health

*The University of Arizona is located statewide on the  
ancestral homelands of indigenous peoples.*

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**From:** Duran, Lynette A - (laduran) <[laduran@arizona.edu](mailto:laduran@arizona.edu)>  
**Sent:** Monday, November 20, 2023 2:52 PM  
**To:** Morrison, Steve - (smorriso) <[smorriso@arizona.edu](mailto:smorriso@arizona.edu)>  
**Cc:** Gaither, Joshua B - (jgaither) <[JGaither@aemrc.arizona.edu](mailto:JGaither@aemrc.arizona.edu)>; Rice, Amber D - (rice1) <[ARice@aemrc.arizona.edu](mailto:ARice@aemrc.arizona.edu)>; Ernst, Kacey C - (kernst) <[kernst@arizona.edu](mailto:kernst@arizona.edu)>; Ehiri, John E - (jehiri) <[jehiri@arizona.edu](mailto:jehiri@arizona.edu)>  
**Subject:** RE: Request to Include courses in Certificate proposal

Hello, Steve!

Nice to e-meet you!

These sound like great additions for the certificate. I am looping in Dr. Ernst and Dr. Ehiri for their approval of this request as well.



Have a great day!

Best,  
Lyn

Lyn Durán  
Assistant Dean  
Office of Student Affairs  
Mel and Enid Zuckerman College of Public Health  
The University of Arizona  
Roy P. Drachman Hall  
1295 N. Martin Ave. Room A102  
Tucson, AZ 85724-5033

Ofc: (520) 626-2355  
[laduran@arizona.edu](mailto:laduran@arizona.edu)  
<https://publichealth.arizona.edu>  
<https://arizona.zoom.us/my/lynduran>

Pronouns: She/Her/Ella  
Hablo español



**Land Acknowledgment:**

*We respectfully acknowledge the University of Arizona is on the land and territories of Indigenous peoples. Today, Arizona is home to 22 federally recognized tribes, with Tucson being home to the O'odham and the Yaqui. Committed to diversity and inclusion, the University strives to build sustainable relationships with sovereign Native Nations and Indigenous communities through education offerings, partnerships, and community service.*

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**From:** Morrison, Steve - (smorriso) <[smorriso@arizona.edu](mailto:smorriso@arizona.edu)>  
**Sent:** Friday, November 17, 2023 4:05 PM  
**To:** Duran, Lynette A - (laduran) <[laduran@arizona.edu](mailto:laduran@arizona.edu)>  
**Cc:** Gaither, Joshua B - (jgaither) <[JGaither@aemrc.arizona.edu](mailto:JGaither@aemrc.arizona.edu)>; Rice, Amber D - (rice1) <[ARice@aemrc.arizona.edu](mailto:ARice@aemrc.arizona.edu)>  
**Subject:** Request to Include courses in Certificate proposal

Hello Dean Durán,

I hope your semester is going well.

I'm writing to request the inclusion of **BIOS 376 – Introduction to Biostatistics and EPID 309 – Introduction to Epidemiology** in an undergraduate certificate we are proposing in clinical research. Nearly every student in our current class takes one of the courses we are requesting below as a requirement for their major (PSIO, BSM, NCS, Biology, Pre-Nursing, BIOC, and BME were the most common majors) and those that were not required to take it have the option to include one of them in their major study plan. About half of the programs have BIOS 376 as an options for their students. Currently BIOS 376 and EPID 309 are options in our BS in Emergency Medical Services program. Their inclusion was originally approved by Dr. Doug Taren in October 2018.

By adding these to our list of courses, I do not imagine a great impact to the current seats in this course as they're already an available course option in many of the majors that enrolled in our current course. I would consider a 5-10 seats increase annually at the very most. Biomedical Engineering has their own Biostatistics course for their majors.

We are requesting the inclusion of BIOS 376, BME 376, EPID 309, MATH 263, and SBS 200 as statistics options for the certificate. The other 3 courses would be our own series of courses in clinical research and aligned with a professional certificate in clinical research.

Please let me know if you have any questions, if you'd like to talk through this in a meeting, and if you give us your approval to include BIOS 376 and EPID 309 among our current list for this certificate.

Thank you for considering our request,

Steve

Steve Morrison  
EMS Degree Program Manager  
520.626.1187  
[smorriso@arizona.edu](mailto:smorriso@arizona.edu)

Kindness is Good Medicine



**From:** [Kimme Hea, Amy C - \(kimmehea\)](#)  
**To:** [Morrison, Steve - \(smorriso\)](#)  
**Cc:** [Gaither, Joshua B - \(jgaither\)](#); [Rice, Amber D - \(rice1\)](#)  
**Subject:** RE: Request to Include course in Certificate proposal  
**Date:** Friday, November 17, 2023 4:27:20 PM  
**Attachments:** [image003.png](#)  
[image004.png](#)  
[image005.png](#)

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Dear Steve,

Wonderful to hear from you, and I am happy for you to offer SBS 200 as part of your certificate. Please let me know if you need any additional information from me.

Hope you have a lovely weekend, all.

All best,

Amy

Amy C. Kimme Hea, PhD  
Associate Dean, Academic Affairs & Student Success  
College of Social and Behavioral Sciences  
Professor, English | Faculty, Social, Cultural, and Critical Theory GDP  
Douglass Building, Room 200W  
PO Box 210028  
University of Arizona  
Tucson, AZ 85721.0028  
520.621.1112

Pronouns: she/her/hers



*We respectfully acknowledge the University of Arizona is on the land and territories of Indigenous peoples. Today, Arizona is home to 22 federally recognized tribes, with Tucson being home to the O'odham and the Yaqui. Committed to diversity and inclusion, the University strives to build sustainable relationships with sovereign Native Nations and Indigenous communities through education offerings, partnerships, and community service.*

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**From:** Morrison, Steve - (smorriso) <smorriso@arizona.edu>  
**Sent:** Friday, November 17, 2023 4:04 PM

**To:** Kimme Hea, Amy C - (kimmehea) <kimmehea@arizona.edu>

**Cc:** Gaither, Joshua B - (jgaither) <JGaither@aemrc.arizona.edu>; Rice, Amber D - (rice1) <ARice@aemrc.arizona.edu>

**Subject:** Request to Include course in Certificate proposal

Hello Dr. Kimme Hea ,

I hope your semester is going well.

I'm writing to request the inclusion of **SBS 200 – Introduction to Statistics & Biostatistics** in an undergraduate certificate we are proposing in clinical research. Nearly every student in our current class takes one of the courses we are requesting below as a requirement for their major (PSIO, BSM, NCS, Biology, Pre-Nursing, BIOC, and BME were the most common majors) and those that were not required to take it have the option to include one of them in their major study plan. Nearly all of the programs have SBS 200 as an option for their students. Currently SBS 200 is an option in our BS in Emergency Medical Services program.

By adding this to our list of courses, I do not imagine a great impact to the current seats in this course as it's already an available course option in many of the majors that enrolled in our current course. I would consider a 5-10 seats increase annually at the very most. Biomedical Engineering has their own Biostatistics course for their majors.

We are requesting the inclusion of BIOS 376, BME 376, EPID 309, MATH 263, and SBS 200 as statistics options for the certificate. The other 3 courses would be our own series of courses in clinical research and aligned with a professional certificate in clinical research.

Please let me know if you have any questions, if you'd like to talk through this in a meeting, and if you give us your approval to include SBS 200 among our current list for this certificate.

Thank you for considering our request,

Steve

Steve Morrison  
EMS Degree Program Manager  
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Kindness is Good Medicine

