THE UNIVERSITY OF ARIZONA®

New Academic Program Workflow Form

General

Proposed Name: Science

Transaction Nbr: 0000000000171

Plan Type: Major

Academic Career: Undergraduate

Degree Offered: Bachelor of Science

Do you want to offer a minor? N

Anticipated 1st Admission Term: Fall 2023

Details

Department(s):

SCNC

| DEPTMNT ID | DEPARTMENT NAME | HOST |
|------------|------------------------|------|
| 0442 | Science Administration | Y |

Campus(es):

ONLN

| LOCATION | DESCRIPTION |
|----------|-------------|
| ONLN | Online |

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

Plan admission types:

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

Non Degree Certificate (UCRT only): N

Other (For Community Campus specifics): N

Plan Taxonomy: 30.0101, Biological and Physical Sciences.

Program Length Type: Program Length Value: 0.00

Report as NSC Program:

SULA Special Program:

Print Option:

Diploma: Y Bachelor of Science in Science

Transcript: Y Bachelor of Science in Science

Conditions for Admission/Declaration for this Major:

2.0 GPA

Requirements for Accreditation:

None.

Program Comparisons

University Appropriateness

This proposed degree aligns with the UArizona strategic pillars:

1. Wildcat Journey, preparing students with the skills and mindsets to lead in the 4th Industrial Economy

2. Arizona Advantage, advancing our land grant mission to drive social, cultural, and economic impact

The proposed degree will add value to degrees in such fields as education, law, journalism, business, development, economics, management, humanities, etc.) so students in these fields are better prepared to apply their knowledge to the challenges of today. The degree thus prepares students with a foundation in science that will enable them to drive social, cultural, and economic change. Students will obtain an appreciation for scientific knowledge, laying a foundation for critical thinking. Additionally, understanding of science factors fundamentally into the background and mindset necessary for students to address challenges of the 4th Industrial Economy.

Arizona University System

| NBR | PROGRAM | DEGREE | #STDNTS | LOCATION | ACCRDT |
|-----|--------------------------------------|--------|---------|----------|--------|
| 1 | General Science, BS in Educati | BSED | 15 | NAU | Y |

Peer Comparison

NAU offers a secondary education degree in General Science, Bachelor of Science in Education requiring students to take 53 units in STEM preparation

courses and 33 units in teacher preparation courses. The main similarity with the proposed program is in providing students with STEM instruction in 100- and 200-level (introductory) STEM preparation courses. The main difference is that all the upper division electives in the NAU program focus entirely on teacher preparation. Thus, although students acquire introductory science knowledge in the program offered by NAU, they do not acquire much depth. In addition to a strong foundation of introductory science knowledge, students in our proposed BS in Science add significant breadth and depth through 8 upper division electives reflecting their specific interests in science.

Faculty & Resources

Faculty

Current Faculty:

| INSTR ID | NAME | DEPT | RANK | DEGREE | FCLTY/% |
|----------|---------------|------|-----------|------------|---------|
| 04504139 | Mary Peterson | 0423 | Professor | Doctor of | .05 |
| | | | | Philosophy | |
| 04709789 | Sumitendra | 0411 | Professor | Doctor of | .05 |
| | Mazumdar | | | Philosophy | |
| 06605230 | Joyce | 0417 | Professor | Doctor of | .05 |
| | Schroeder | | | Philosophy | |
| 12906053 | Rebecca | 0423 | Professor | Doctor of | .05 |
| | Gomez | | | Philosophy | |
| 13300427 | Craig | 2536 | Professor | Doctor of | .05 |
| | Aspinwall | | | Philosophy | |
| 13503529 | Konrad | 2529 | Professor | Doctor of | .05 |
| | Zinsmaier | | | Philosophy | |
| 14107852 | Michael | 0420 | Professor | Doctor of | .05 |
| | Worobey | | | Philosophy | |
| 15903042 | Christopher | 0469 | Professor | Doctor of | .05 |
| | Castro | | | Philosophy | |

Additional Faculty:

None

Current Student & Faculty FTE

| DEPARTMENT | UGRD HEAD COUNT | GRAD HEAD COUNT | FACULTY FTE |
|------------|-----------------|-----------------|-------------|
| SCNC | 7908 | 882 | 65.00 |

Projected Student & Faculty FTE

| | UGRD HEAD COUNT | | GRAD HEAD COUNT | | | FACULTY FTE | | | |
|------|-----------------|------|-----------------|------|------|-------------|-------|-------|-------|
| DEPT | YR 1 | YR 2 | YR 3 | YR 1 | YR 2 | YR 3 | YR 1 | YR 2 | YR 3 |
| 0442 | 30 | 60 | 90 | 0 | 0 | 0 | 57.00 | 57.00 | 57.00 |

Library

Acquisitions Needed:

None

Physical Facilities & Equipment

Existing Physical Facilities:

None

Additional Facilities Required & Anticipated:

None

Other Support

Other Support Currently Available:

Science Administration

Other Support Needed over the Next Three Years:

The proposed BS in Science requires no additional faculty or infrastructure but will require an advisor for student support and a program manager to administer the program. The associate dean for undergraduate student success in the college of science will oversee hiring these personnel.

Comments During Approval Process

1/20/2023 4:29 PM

| Comments | |
|-----------|--|
| Approved. | |

1/20/2023 5:07 PM

RGOMEZ

| Comments | |
|-----------|--|
| Approved. | |



To be used once the preliminary proposal has been approved.

I. MAJOR REQUIREMENTS-

UNDERGRADUATE

| Total units required to complete the degree | 120 |
|--|---|
| Upper-division units required to complete the degree | 42 |
| Foundation courses | |
| Second language | 2 nd Semester Proficiency |
| <u>Math</u> | Substantial: S-Strand |
| General education requirements | Entry course/1 unit – UNIV 101 4 courses/12 units: Exploring Perspectives (one course from each domain |
| | required) |
| | - Humanist |
| | - Artist |
| | - Social Scientist |
| | - Natural Scientist |
| | |
| | 3 courses/9 units: Building Connections |
| | |
| | Exit course/1 unit – UNIV 301 |
| Pre-major? (Yes/No). If yes, provide requirements. Provide email(s)/letter(s) of support from home department head(s) for courses not owned by your department. | No |
| List any special requirements to declare or gain admission to this major (completion of specific coursework, minimum GPA, interview, application, etc.) | No special requirements |
| Major requirements | |
| Minimum # of units required in the major (units counting towards major units and major GPA) | 51 |



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|---|--|
| Minimum # of upper-division units required in the major (upper division units counting towards | 25 |
| major GPA) | |
| Minimum # of residency units to be completed in | 18 |
| the major | |
| Required supporting coursework (courses that do | Complete 1 of the following: |
| not count towards major units and major GPA but | -Math 122A (1) Functions of Calculus & Math 122B (4) First semester |
| are required for the major). Courses listed must | Calculus |
| include prefix, number, units, and title. Include | -Math 125 (3) Calculus |
| any limits/restrictions needed (house number | |
| limit, etc.). | |
| Major requirements. List all major requirements | <u>Core Courses</u> |
| including core and electives. If applicable, list the | Statistics Requirement. (3 units) Complete 1 of the following: |
| emphasis requirements for each proposed emphasis*. Courses listed count towards major units and major GPA. Courses listed must include prefix, number, units, and title. Mark new coursework (New). Include any limits/restrictions needed (house number limit, etc.). Provide | -Math 163 or 263 (3) Basic Statistics or Intro to Statistics and Biostatistics |
| | -PSY 230 (3) Psychological Measurement and Statistics |
| | Core Science Requirement. (16 units) Complete 4 of the following (complete |
| | at least one course from each of biology, chemistry, and physics): |
| | -MCB 181 R/L (4) Introductory Biology I with lab |
| email(s)/letter(s) of support from home | -ECOL 182 R/L (4) Introductory Biology 2 with lab |
| department head(s) for courses not owned by | -CHEM 141 & 145 (4) General Chemistry 1: Quantitative Approach with lab |
| your department. | -CHEM 142 & 146 (4) General Chemistry 2: Quantitative Approach with lab |
| | -PHYS 102 & 181 (4) Introductory Physics 1 with lab |
| | -PHYS 103 & 182 (4) Introductory Physics 2 with lab |
| | Or |
| | -PHYS 141 (4) Introductory Mechanics |
| | -PHYS 241 (4) Introductory Electricity and Magnetism |
| | -PHYS 242 (4) Introductory Relativity and Quantum Mechanics |
| | Additional Science Requirement (7 units). Complete 2 of the following: |
| | -NSCS 200 (3) Fundamentals of Neuroscience & Cognitive Science |
| | -PSY 101 (4) Introduction to Psychology |
| | |
| | |



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| | Capstone Requirement (1 unit) |
| | -SCI 401 (1) Science Capstone |
| | <u>Upper division electives (24 units)</u> Students take at least 4 courses in one area and the remaining 4 courses from any of those listed below for a total of 8 upper division electives. Example areas are listed below. An area may also be a grouping of classes from a single STEM department. |
| | Psychology-PSY 300 (3) Cognitive Neuroscience: A Guide to Mind and Brain-PSY 340 (3) Introduction to Cognitive Development-PSY 352 (3) Personality-PSY 360 (3) Social Psychology-PSY 381 (3) Abnormal Psychology-PSY 383 (3) Health Psychology-PSY 324 (3) Fundamentals of Aging-PSY 412 (3) Animal Learning-PSY 480 (3) Forensic Psychology |
| | Earth Systems and Sustainability -ATMO 336 (3) Weather, Climate, and Society -HWRS 349A (3) Principals of Hydrology -HWRS 349B (3) Principals of Hydrology Lab -ATMO 436A (3) Weather Fundamentals |
| | Genetics, Cell, and Molecular Biology -ECOL 320 (4) Genetics -ECOL 326 (3) Genomics -MCB 404 (3) Bioethics -MCB 410 (3) Cell Biology -MCB 411 (3) Molecular Biology -MCB 422 (3) Problem Solving with Genetic Tools |



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|---|---|
| | Ecology, Evolution, and Animal Behavior -ECOL 406R (3) Conservation Biology -ECOL 437 (4) Vertebrate Physiology -ECOL 485 (4) Mammalogy -ECOL 487R (3) Animal Behavior -ECOL 487L (1) Animal Behavior Lab -ECOL 488 (4) Arizona Mammals |
| | Biochemistry ~CHEM 241A (3) Organic Chemistry Lecture I -CHEM 241B (3) Organic Chemistry Lecture 2 -BIOC 384 (3) Foundations in Biochemistry -BIOC 385 (3) Metabolic Biochemistry (~required for the remaining 3 courses in this grouping) |
| | Neuroscience *NROS 307 (3) Cellular Neurophysiology *NROS 310 (3) Molecular and Cellular Biology of Neurons *NROS 418 (3) Fundamental Principles of systems Neuroscience -NROS 308 (3) Methods in Neuroscience -NROS 330 (3) Principles of Neuroanatomy: Cells to Systems -NROS 430 (3) Neurogenetics -NROS 440 (3) How to build a Brain: Mechanisms of Neural Development (*recommended courses) |
| | Cognitive Science -NSCS 320 (3) Issues and Themes in Cognitive Science -CGSC 344 (3) Modeling the Mind: Computational Models of Cognition -CGSC 310 (3) Multisensory Perception -PSY 300 (3) Cognitive Neuroscience: A Guide to Mind and Brain (note: students may count this course toward one grouping only) |
| Internship, practicum, applied course requirements (Yes/No). If yes, provide description. | No |
| Senior thesis or senior project required (Yes/No). If yes, provide description. | No |



To be used once the preliminary proposal has been approved.

| Additional requirements (provide description) | None |
|---|--|
| Minor (specify if optional or required) | None required |
| Any double-dipping restrictions (Yes/No)? If yes, | Up to 9 units may double dip with general education requirements |
| provide description. | |

CURRENT COURSES-

| Course prefix and number (include cross- listings) | Units | Title | Pre-requisites | Modes of delivery (online, in- person, hybrid) | Typically Offered (F, W, Sp, Su) | Dept signed party to proposal? (Yes/No) |
|---|-------|---|--|--|---|---|
| MATH 263 | 3 | Introduction to Statistics and Biostatistics | Placement or completion of MATH 108, 112, 113, 116, 119A, 122B, or 125 in the last year | Online | F,Sp,Su | Yes |
| PSY 230 | 3 | Psychological Measurement and Statistics | PSY 101 or PSY 150A1 | Online | F,Sp,Su | Yes |
| MCB 181R/L | 4 | Introductory Biology 1 with lab | placement | Online | F,Sp,Su | Yes |
| ECOL 182R/L | 4 | Introductory Biology 2 with lab | placement | Online | Fall (7W1 & 7W2), Spring (7W1 & 7W2), Summer (5W1 & 5W2) | Yes |
| CHEM 141 | 3 | General Chemistry 1: Quantitative Approach | placement | Online | F,Su | Yes |
| CHEM 145 | 1 | General Chemistry 1 Lab: Quantitative Approach | placement | Online | F,Su | Yes |



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|-----------|---|---|--|--------|------------|-----|
| CHEM 142 | 3 | General Chemistry 2: Quantitative Approach | CHEM 141 | Online | Sp,Su | Yes |
| CHEM 146 | 1 | General Chemistry 2 Lab: Quantitative Approach | CHEM 142 | Online | Sp,Su | Yes |
| PHYS 102 | 3 | Introductory Physics 1 | placement | Online | F,Sp | Yes |
| PHYS 181 | 1 | Introductory Physics 1 Lab | placement | Online | F,Sp | Yes |
| PHYS 103 | 3 | Introductory Physics 2 | PHYS 102 | Online | F,Sp | Yes |
| PHYS 182 | 1 | Introductory Physics 2 Lab | PHYS 181 | Online | F,Sp | Yes |
| PHYS 141 | 4 | Introductory Mechanics | Calc 1, concurrent enrollment in MATH 129 | Online | F,Sp | Yes |
| PHYS 241 | 4 | Introductory Electricity and Magnetism | PHYS 141, CR, MATH 223 | Online | F,Sp | Yes |
| PHYS 242 | 3 | Introductory Relativity and Quantum Mechanics | PHYS 141, PHYS 142, PHYS 241 or OPTI 226 | Online | F,Sp | Yes |
| NSCS 200 | 3 | Fundamentals of Neuroscience & Cognitive Science | MCB 181R and PSY 101 or equivalent | Online | F,Sp | Yes |
| PSY 101 | 4 | Introduction to Psychology | None | Online | F,W,Sp, Su | Yes |
| PSY 300 | 3 | Cognitive Neuroscience: A Guide to Mind and Brain | None | Online | F,W,Sp, Su | Yes |
| PSY 340 | 3 | Introduction to Cognitive Development | PSY 101 or PSY 150A1 | Online | F,Sp,Su | Yes |
| PSY 352 | 3 | Personality | PSY 101 or PSY 150A1 | Online | Sp,Su | Yes |
| PSY 360 | 3 | Social Psychology | PSY 101 or PSY 150A1 | Online | Fa,Su | Yes |
| PSY 381 | 3 | Abnormal Psychology | PSY 101 or PSY 150A1 | Online | Sp,Su | Yes |
| PSY 383 | 3 | Health Psychology | PSY 101 or PSY 150A1 | Online | Fa,Su | Yes |
| PSY 324 | 3 | Fundamentals of aging | PSY 101 or PSY 150A1 | Online | Fa | Yes |
| PSY 412 | 3 | Animal Learning | PSY 101 or PSY 150A1 | Online | Sp | Yes |
| PSY 480 | 3 | Forensic Psychology | PSY 101 or PSY 150A1 | Online | Sp | Yes |
| ATMO 336 | 3 | Weather, Climate and Society | None | Online | Fa, Sp, Su | Yes |
| HWRS 349A | 3 | Principals of Hydrology | MATH 122B or MATH 125 | Online | Fa | Yes |
| HWRS 349B | 3 | Principals of Hydrology Lab | MATH 122B or MATH 125. Have previously taken HWRS 249A or concurrent | Online | Fa | Yes |



| ONA | | 1 | | | | |
|-----------|---|------------------------------|------------------------------|--------|----------------|-----|
| | | | enrollment in HWRS 249A. | | | |
| | | | Department permission | | | |
| | | | required. | | | |
| ATMO 436A | 3 | Weather Fundamentals | MATH113 or MATH 122B and | Online | Sp | Yes |
| | | | physics background (high | | | |
| | | | school physics suffices) | | | |
| ECOL 320 | 4 | Genetics | MCB 181R and MCB 181L or | Online | Fall (7W1), | Yes |
| | | | consent of instructor. | | Spring (7W1), | |
| | | | | | Summer | |
| | | | | | (5W1 & 5W2) | |
| ECOL 326 | 3 | Genomics | ECOL 182R and ECOL 182L | Online | Fall (7W2) | Yes |
| MCB 404 | 3 | Bioethics | One year of college-level | Online | F,Sp,Su | Yes |
| | | | introductory biology; botany | | | |
| | | | not acceptable. | | | |
| MCB 410 | 3 | Cell Biology | Not an MCB BS major. MCB | Online | Fa,Su | Yes |
| | | | 181R, MCB 181L, ECOL 182R, | | | |
| | | | ECOL 182L. | | | |
| MCB 411 | 3 | Molecular Biology | Not an MCBBS major. | Online | Sp,Su | Yes |
| | | | Prerequisites MCB 181R, | | | |
| | | | MCB 181L. | | | |
| MCB 422 | 3 | Problem Solving with Genetic | MCB 181R and 181L. | Online | Su | Yes |
| | | Tools | | | | |
| ECOL 406R | 3 | Conservation Biology | ECOL 182R and ECOL 182L | Online | Summer | Yes |
| | | | | | (during 5W1 | |
| | | | | | OR 5W2) | |
| ECOL 437 | 4 | Vertebrate Physiology | ECOL 182R and ECOL 182L | Online | Spring (7W1) | Yes |
| ECOL 485 | 4 | Mammalogy | ECOL 182R and ECOL 182L | Online | Fall (7W2) | Yes |
| ECOL 487R | 3 | Animal Behavior | ECOL 182R and ECOL 182L | Online | Fall OR Spring | Yes |
| | | | | | (during 7W1 | |
| | | | | | OR 7W2) | |
| ECOL 487L | 1 | Animal Behavior Lab | ECOL 182R and ECOL 182L | Online | Fall OR Spring | Yes |
| | | | | | (during 7W1 | |
| | | | | | OR 7W2) | |



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|-----------|---|---|---|--------|----------------------------------|-----|
| ECOL 488 | 4 | Arizona Mammals | ECOL 182R and ECOL 182L | Online | Summer (during 5W1 OR 5W2) | Yes |
| CHEM 241A | 3 | Organic Chemistry Lecture I | CHEM 105B, CHEM 142, CHEM 152 or CHEM 162. | Online | F,Su | Yes |
| BIOC 384 | 3 | Foundations in Biochemistry | MCB 181R and (CHEM 142 or CHEM 152 or CHEM 105B or CHEM 162) and (CHEM 241A or CHEM 242A or CHEM 246A). BIOCBA and BIOCBS Students may not enroll. | Online | F,W,Sp,Su | Yes |
| BIOC 385 | 3 | Metabolic Biochemistry | MCB 181R and (CHEM 142 or CHEM 152 or CHEM 105B or CHEM 162) and (CHEM 241A or CHEM 242A or CHEM 246A). BIOCBA and BIOCBS Students may not enroll. | Online | F,W,Sp,Su | Yes |
| CHEM 241B | 3 | Organic Chemistry Lecture II | CHEM 241A or CHEM 242A or CHEM 246A. | Online | F,Su | Yes |
| NROS 307 | 3 | Cellular Neurophysiology | MCB181R , CHEM 151 with lab. | Online | F,Sp | Yes |
| NROS 308 | 3 | Methods in Neuroscience | Prerequisite or concurrent enrollment in NSCS 307. | Online | F,Sp | Yes |
| NROS 310 | 3 | Molecular and Cellular Biology of Neurons | NSCS 200 | Online | F,Sp | Yes |
| NROS 418 | 3 | Fundamental Principles of Systems Neuroscience | None | Online | F,Sp | Yes |
| NROS 330 | 3 | Principles of Neuroanatomy: Cells to Systems | NSCS 200 and prerequisite or concurrent enrollment in NROS 307. Other courses may be accepted at the discretion of instructor. | online | F,Sp | Yes |
| NROS 430 | 3 | Neurogenetics | MCB 181R (required), NROS 310 (recommended). | Online | F,Sp | Yes |



To be used once the preliminary proposal has been approved.

| NROS 440 | 3 | How to Build a Brain: Mechanisms | NSCS 200 (in progress OK) | Online | F,Sp | Yes |
|----------|---|----------------------------------|---------------------------|--------|-------|-----|
| | | of Neural Development | | | | |
| NSCS 320 | 3 | Issues and Themes in Cognitive | NSCS 200 | Online | Fa,Sp | Yes |
| | | Science | | | | |
| CGSC 344 | 3 | Modeling the Mind: | NSCS 200 | Online | Fa,Sp | Yes |
| | | Computational Models of | | | | |
| | | Cognition | | | | |
| CGSC 310 | 3 | Multisensory Perception | NSCS 200 | Online | Su | Yes |
| | | | | | | |

II. NEW COURSES NEEDED

| Course prefix and number (include cross- listings) | Units | Title | 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 |
|---|-------|------------------|--------------------|--|---------|--------------------------------------|---|---|--|
| SCI 401 | 1 | Science Capstone | None | Online | D | Spring 2025 | F, Sp | Yes | Yes |

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

III. FACULTY INFORMATION

| Faculty Member | Involvement | UA Vitae link or Box folder link |
|-----------------------|---|--|
| Associate Dean for | Will oversee hiring of program manager for degree program | https://profiles.arizona.edu/person/rgomez |
| Undergraduate Student | | |
| Success, College of | | |
| Science | | |
| Joyce Schroeder | Will oversee use and delivery of MCB courses | https://profiles.arizona.edu/person/joyces |



To be used once the preliminary proposal has been approved.

| Michael Worobey | Will oversee use and delivery of ECOL courses | https://profiles.arizona.edu/person/worobey |
|---------------------|---|--|
| Sumitendra Mazumdar | Will oversee use and delivery of Physics courses | https://profiles.arizona.edu/person/mazumdar |
| Lee Ryan | Will oversee use and delivery of psychology courses | https://profiles.arizona.edu/person/ryant |
| Christopher Castro | Will oversee use and delivery of HAS courses | https://profiles.arizona.edu/person/clcastro |
| Craig Aspinwall | Will oversee use and delivery of chemistry and biochemistry courses | https://profiles.arizona.edu/person/aspinwal |
| Konrad Zinsmaier | Will oversee use and delivery of NROS courses and NSCS 200 | https://profiles.arizona.edu/person/kez4 |
| Mary Peterson | Will oversee use and delivery of CGSC courses | https://profiles.arizona.edu/person/mapeters |

IV. GRADUATION PLAN

| Semester 1 | | Semester 2 | | Semester 3 | | Semester 4 | |
|----------------------|-------|-------------------|-------|-------------------|-------|---------------------|-------|
| Course prefix and | Units | Course prefix and | Units | Course prefix and | Units | Course prefix and | Units |
| number | | number | | number | | number | |
| ENGL 101 | 3 | ENGL 102 | 3 | Semester 1 | 4 | Semester 2 Language | 4 |
| | | | | Language | | Requirement | |
| | | | | Requirement | | | |
| MATH 125 | 3 | Statistics | 3 | Gen-Ed (EP | 3 | NSCS 200 | 3 |
| | | Requirement | | Humanist) | | | |
| Gen-Ed (EP Artist) | 3 | Core Science | 4 | Core Science | 4 | Core Science | 4 |
| | | Requirement with | | Requirement with | | Requirement with | |
| | | Lab II | | Lab III | | Lab IV | |
| UNIV 101 | 1 | Gen-Ed (EP Social | 3 | PSY 101 | 4 | Gen-Ed (EP Natural | 3 |
| | | Scientist) | | | | Scientist) | |
| Core Science | 4 | Non-major Lower | 3 | | | Non-major Lower | 3 |
| Requirement with Lab | | Division Elective | | | | Division Elective | |
| 1 | | | | | | | |
| Total | 14 | Total | 16 | Total | 15 | Total | 17 |

| Semester 5 | | Semester 6 | | Semester 7 | | Semester 8 | |
|-------------------------|--|-------------------|-------|-------------------------|--|-------------------|-------|
| Course prefix and Units | | Course prefix and | Units | Course prefix and Units | | Course prefix and | Units |
| number | | number | | number | | number | |



| 15 | Total | 15 | Total | 15 | Total | 17 |
|----|-------------------|---|--|---|---|--|
| | | | | | | |
| | | | | | SCI 401 | 1 |
| | Division Elective | | Division Elective | | Division Elective | |
| 3 | Non-major Upper | 3 | Non-major Upper | 3 | Non-major Upper | 3 |
| | Division Elective | | Division Elective | | Division Elective | |
| 3 | Non-major Upper | 3 | Non-major Upper | 3 | Non-major Upper | 3 |
| | Group 2.2 | | Group 2.3 | | Group 2.4 | |
| 3 | Major Electives | 3 | Major Electives | 3 | Major Electives | 3 |
| | Group 1.2 | | Group 1.3 | | Group 1.4 | |
| 3 | Major Electives | 3 | Major Electives | 3 | Major Electives | 3 |
| | Connections II | | Connections III | | | |
| 3 | GenEd Building | 3 | GenEd Building | 3 | UNIV 301 | 1 |
| - | 3 3 3 3 | Connections II3Major Electives Group 1.23Major Electives Group 2.23Non-major Upper Division Elective3Non-major Upper Division Elective4Non-major Upper Division Elective | Connections II3Major Electives3Group 1.23Major Electives33Major Electives33Group 2.23Non-major Upper33Non-major Upper33Division Elective3Non-major Upper34Division Elective445Division Elective460007000700080009 <t< td=""><td>Connections IIConnections III3Major Electives3Major ElectivesGroup 1.23Major ElectivesGroup 1.33Major Electives3Major ElectivesGroup 2.23Major Electives3Non-major Upper3Non-major UpperDivision Elective3Non-major Upper3Non-major Upper3Non-major Upper0000100100</td><td>Connections IIConnections III3Major Electives3Major Electives3Group 1.23Major Electives3Group 1.33Major Electives3Major Electives33Major Upper3Non-major Upper33Non-major Upper3Non-major Upper33Non-major Upper3Non-major Upper33Non-major Upper3Non-major Upper34Division Elective3Non-major Upper35Non-major Upper3Non-major Upper36Division Elective3Non-major Upper36Division Elective3Non-major Upper37Division Elective111</td><td>Connections IIConnections IIIMajor Electives3Major Electives3Major Electives3Major Electives3Group 1.23Major Electives3Major ElectivesGroup 1.43Major Electives3Major Electives3Major Electives3Major Electives3Major ElectivesGroup 2.43Non-major Upper3Non-major Upper3Non-major Upper0ivision Elective3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper1Division Elective3Non-major UpperSCI 4011IIIII</td></t<> | Connections IIConnections III3Major Electives3Major ElectivesGroup 1.23Major ElectivesGroup 1.33Major Electives3Major ElectivesGroup 2.23Major Electives3Non-major Upper3Non-major UpperDivision Elective3Non-major Upper3Non-major Upper3Non-major Upper0000100100 | Connections IIConnections III3Major Electives3Major Electives3Group 1.23Major Electives3Group 1.33Major Electives3Major Electives33Major Upper3Non-major Upper33Non-major Upper3Non-major Upper33Non-major Upper3Non-major Upper33Non-major Upper3Non-major Upper34Division Elective3Non-major Upper35Non-major Upper3Non-major Upper36Division Elective3Non-major Upper36Division Elective3Non-major Upper37Division Elective111 | Connections IIConnections IIIMajor Electives3Major Electives3Major Electives3Major Electives3Group 1.23Major Electives3Major ElectivesGroup 1.43Major Electives3Major Electives3Major Electives3Major Electives3Major ElectivesGroup 2.43Non-major Upper3Non-major Upper3Non-major Upper0ivision Elective3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper3Non-major Upper1Division Elective3Non-major UpperSCI 4011IIIII |



To be used once the preliminary proposal has been approved.

V. Curriculum Map and Assessment Map - Complete this table as a summary of your learning outcomes and assessment plan, using these examples as a model. If you need assistance completing this table and/or the Curriculum Map, please contact the Office of Instruction and Assessment. Attach your Curriculum Map here.

Program: BS Science

Learning Outcome #1: Demonstrate foundational knowledge of the discipline (Basic Knowledge).

Concepts: core knowledge of the discipline

Competencies: Students will demonstrate understanding of the theories, fundamental principles, and concepts of the discipline.

Assessment Methods: This outcome will be assessed in participation in online discussions, exams, assigned readings, and discussion questions.

Measures: Direct measures include evaluation of homework, exams, papers, reports, or other student projects. Indirect measures will include student self-assessments via surveys and reflections

Learning Outcome #2: Apply modern and/or relevant laboratory skills and protocols to collect and analyze data (Laboratory Skills).

Concepts: laboratory skills and protocols for collecting and analyzing data

Competencies: Students will use quantitative skills to 1) collect data using the tools of the discipline and 2) analyze the data.

Assessment Methods: This outcome will be assessed across several different laboratories the student takes.

Measures: Direct measures include Instructor grading of lab reports. Indirect measures will include student self-assessments via surveys and reflections

Learning Outcome #3: Communicate knowledge, ideas, and reasoning clearly, effectively, and objectively in written and oral forms (Communication Skills).

Concepts: communicate effectively, reason clearly, write and communicate objectively

Competencies: Students will demonstrate their knowledge through oral and written work

Assessment Methods: This outcome will be assessed using oral presentations and/or written papers in the capstone course

Measures: Direct measures include instructor grading of written and oral work. Indirect measures will include student self-assessments via surveys and reflections

Learning Outcome #4: Interpret data using scientific reasoning and foundational disciplinary knowledge through project-based activities and/or research projects (Scientific Reasoning and Research).

Concepts: basic experimental manipulations, analysis of data, implications of the experimental outcomes

Competencies: Students will demonstrate their ability to apply experimental methods and interpret data.

Assessment Methods: This outcome will be assessed in participation in online discussions, exams, lab reports, and discussion questions.

Measures: Direct measures include evaluation of student written work, project-based activities, or research projects. Indirect measures will include student self-assessments via surveys and reflections



To be used once the preliminary proposal has been approved.

Learning Outcome #5: Demonstrate teamwork skills by collaborating and participating with peers to produce various deliverables (e.g., data collection, data analysis, conclusions) (Teamwork).

Concepts: collaborative work, mutual respect, and shared values.

Competencies: Students will demonstrate the ability to work effectively in virtual teams by demonstrating mastery of professional skills including content knowledge, self-reflection, project-management, and teamwork.

Assessment Methods: This outcome will be assessed in classroom interaction, homework, or group projects.

Measures: Direct measures include grades of student contribution to a project. Indirect measures will include student self-assessments via surveys and reflections

VII. PROGRAM ASSESSMENT PLAN-.

| Assessment Measure | Source(s) of Evidence | Data Collection Point(s) |
|--|--|---|
| Job Placement Statistics | Student/Alumni Survey | At graduation annually (senior exit survey) |
| SCI 401 | Percentage of students meeting the | Annually |
| Senior Capstone | acceptable target for each learning | |
| | objective measured using class | |
| | assignments, reflections, presentations, and | |
| | reports | |
| Senior Exit Survey (will measure | Student Survey | At graduation annually |
| percentage of students rating each | | |
| learning outcome at "Agree" or "Strongly | | |
| Agree" | | |

VIII. 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 | Number of 30 60 90 120 150 | | | | | | |
| Students | | | | | | | |



To be used once the preliminary proposal has been approved.

Data/evidence used to determine projected enrollment numbers:

We used enrollment rates in two comparable programs at peer institutions to anticipate program enrollment. The table below shows the total enrollment in these programs. We extrapolated a conservative value in line with the program at the University of Oregon established several years ago:

| Summary of enrollments in two comparable programs at peer institutions | | | | | |
|--|----|----------------------------------|-----|--|--|
| UniversityType of DegreeDegree NameTotal Enrollr (2022) | | | | | |
| University of Oregon | BS | Multidisciplinary Studies | 214 | | |
| University of Houston Downtown | BS | Biological and Physical Sciences | 105 | | |

IX. ANTICIPATED DEGREES AWARDED-

| PROJECTED DEGREES AWARDED ANNUALLY | | | | | | | |
|--|---|---|----|----|----|--|--|
| 1 st Year 2 nd Year 3 rd Year 4 th Year 5 th Year | | | | | | | |
| Number of | 0 | 9 | 18 | 27 | 36 | | |
| Degrees | | | | | | | |

Data/evidence used to determine number of anticipated degrees awarded annually: We calculated a 60% graduation rate based on comparisons to similar programs at peer institutions. We also factored in students transferring into AZ Online and into the major.

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

All programs required for the major are already developed and delivered via AZ Online. Thus, we will not need time to develop new courses. We will work closely with the recruitment and marketing teams at Arizona Online to market the program through their marketing channels as soon as ABOR approves the degree program.



To be used once the preliminary proposal has been approved.

XI. Program Fees and Differential Tuition (PFDT) Request – For implementation of fees, you must work with <u>University Fees</u>. The annual deadline is December 1. For any questions, please contact the <u>University Fees Program Manager</u>.

We do not plan to propose any program fees associated with any new courses for the BS in Science program.



To be used once the preliminary proposal has been approved.

Appendix C. ABOR Form

Request to Establish New Academic Program in Arizona

Please complete all fields. Boxes may be expanded to accommodate longer responses. Clarifying field descriptions can be found below. Should you have any questions or concerns, please email Helen Baxendale, Director of Academic Affairs and Policy at helen.baxendale@azregents.edu

University: University of Arizona

| Acadomia | Department |
|-------------|--|
| | Department: |
| College of | Science—SCNC. |
| Geographi | c Site: |
| Arizona Or | line |
| Instructior | al Modality: |
| online/ON | LN campus |
| Total Cred | it Hours: |
| 120 | |
| Proposed | nception Term: Fall 2023 |
| Brief Prog | am Description: |
| | The B.S. in Science meets the needs of students in our AZ Online programs who wish to pair their degrees with basic |
| | training and skills in STEM. This interdisciplinary degree program emphasizing biological and physical sciences will enhance |
| | job opportunities for students with a strong interest in science who do not anticipate working as a professional |
| | scientist, but instead intend to use their knowledge in an intersectional field such as education, policy, law, or |



education. It will also provide basic STEM background for medical and health services managers, medical assistants, natural sciences managers, and entry level science technicians. This degree will prepare students with a foundation in science that will enable them to drive social, cultural, and economic change.

This proposed degree aligns with the UArizona strategic pillars:

- 1. Wildcat Journey, preparing students with the skills and mindsets to lead in the 4th Industrial Economy
- 2. Arizona Advantage, advancing our land grant mission to drive social, cultural, and economic impact

The proposed degree will add value to degrees in such fields as education, law, journalism, business, development, economics, management, humanities, etc.) so students in these fields are better prepared to apply their knowledge to the challenges of today. The degree thus prepares students with a foundation in science that will enable them to drive social, cultural, and economic change. Students will obtain an appreciation for scientific knowledge, laying a foundation for critical thinking. Additionally, understanding of science factors fundamentally into the background and mindset necessary for students to address challenges of the 4th Industrial Economy.

Learning Outcomes and Assessment Plan:

Program: BS Science

Learning Outcome #1: Demonstrate foundational knowledge of the discipline (Basic Knowledge).

Concepts: core knowledge of the discipline

Competencies: Students will demonstrate understanding of the theories, fundamental principles, and concepts of the discipline.

Assessment Methods: This outcome will be assessed in participation in online discussions, exams, assigned readings, and discussion questions.

Measures: Direct measures include evaluation of homework, exams, papers, reports, or other student projects. Indirect measures will include student self-assessments via surveys and reflections

Learning Outcome #2: Apply modern and/or relevant laboratory skills and protocols to collect and analyze data (Laboratory Skills).

Concepts: laboratory skills and protocols for collecting and analyzing data

Competencies: Students will use quantitative skills to 1) collect data using the tools of the discipline and 2) analyze the data.

Assessment Methods: This outcome will be assessed across several different laboratories the student takes.

Measures: Direct measures include Instructor grading of lab reports. Indirect measures will include student self-assessments via surveys and reflections



To be used once the preliminary proposal has been approved.

Learning Outcome #3: Communicate knowledge, ideas, and reasoning clearly, effectively, and objectively in written and oral forms (Communication Skills).

Concepts: communicate effectively, reason clearly, write and communicate objectively

Competencies: Students will demonstrate their knowledge through oral and written work

Assessment Methods: This outcome will be assessed using oral presentations and/or written papers in the capstone course

Measures: Direct measures include instructor grading of written and oral work. Indirect measures will include student self-assessments via surveys and reflections

Learning Outcome #4: Interpret data using scientific reasoning and foundational disciplinary knowledge through project-based activities and/or research projects (Scientific Reasoning and Research).

Concepts: basic experimental manipulations, analysis of data, implications of the experimental outcomes

Competencies: Students will demonstrate their ability to apply experimental methods and interpret data.

Assessment Methods: This outcome will be assessed in participation in online discussions, exams, lab reports, and discussion questions.

Measures: Direct measures include evaluation of student written work, project-based activities, or research projects. Indirect measures will include student self-assessments via surveys and reflections

Learning Outcome #5: Demonstrate teamwork skills by collaborating and participating with peers to produce various deliverables (e.g., data collection, data analysis, conclusions) (Teamwork).

Concepts: collaborative work, mutual respect, and shared values.

Competencies: Students will demonstrate the ability to work effectively in virtual teams by demonstrating mastery of professional skills including content knowledge, self-reflection, project-management, and teamwork.

Assessment Methods: This outcome will be assessed in classroom interaction, homework, or group projects.

Measures: Direct measures include grades of student contribution to a project. Indirect measures will include student self-assessments via surveys and reflections

| Assessment Measure | Source(s) of Evidence | Data Collection Point(s) |
|--------------------------|--|---|
| Job Placement Statistics | Student/Alumni Survey | At graduation annually (senior exit survey) |
| SCI 401 | Percentage of students meeting the | Annually |
| Senior Capstone | acceptable target for each learning | |
| | objective measured using class | |
| | assignments, reflections, presentations, and | |
| | reports | |



within seven days of receiving notice of the proposed program?

ACADEMIC PROGRAM – ADDITIONAL INFORMATION FORM

To be used once the preliminary proposal has been approved.

| OF ARIZONA | | | | | | | |
|---------------------------------------|------------------|----------------------|----------------------|----------------------|----------------------|------------------------|---------------------------------|
| Senior Exit Survey (will me | asure | Student S | Student Survey | | | At graduation annually | |
| percentage of students rat | rating each | | | | C | | |
| learning outcome at "Agre | - | , | | | | | |
| | e of strongly | / | | | | | |
| Agree" | | | | | | | |
| | | | | | | | |
| Projected Enrollment for the First Th | nree Years: | | | | | | |
| | | 5-YEAR PRO | DJECTED ANN | UAL ENROLLM | IENT | | |
| | | 1 st Year | 2 nd Year | 3 rd Year | 4 th Year | 5 th Year | |
| | Number of | 30 | 60 | 90 | 120 | 150 | |
| | Students | | | | | | |
| | | 1 | | | | • | - |
| Evidence of Market Demand: | | | | | | | |
| The data are from a Lightcast Q3 | 2022 Data Se | et provided by | AZ Online | and a Burnir | ng Glass rep | port provid | ded by Curricular Affairs. For |
| students based in the U.S., the m | | | | | | • | • |
| (biological technicians) to 40.85% | | | | | | | |
| | • | | 0 | , , | • | | |
| (13.49%), medical assistants (21.1 | 14%), Industr | ial Productior | n managers | (11.17%) an | d natural s | ciences ma | anagers (5.14%) also. |
| Additionally, Arizona Global, who wi | ll eventually be | e added as a ca | ampus has ex | xpressed mar | ket demand | for this deg | gree. |
| Similar Programs Offered at Arizona | Public Univers | sities: NAU offe | ers a secon | dary educati | on degree | in General | Science, Bachelor of Science in |
| Education requiring students to t | ake 53 units i | n STEM prepa | aration cou | rses and 33 | units in tea | cher prepa | aration courses. The main |
| similarity with the proposed prog | | | | | | | |
| preparation courses. The main di | | 0 | | | | | |
| | | | | | • | 0 | |
| preparation. Thus, although stud | • | | | - | | | |
| depth. In addition to a strong fou | | | | | | • | BS in Science add significant |
| breadth and depth through 8 upp | per division el | ectives reflec | cting their s | pecific intere | ests in scier | nce. | |
| FOR CURRICULAR AFFAIRS USE ONL | Y | | | | | | |
| Objection(s) Raised by Another Arize | | versitv? | YES NO | | | | |

Has another Arizona public university lodged a written objection to the proposed program with the proposing university and the Board of Regents

19



To be used once the preliminary proposal has been approved.

If Yes, Response to Objections:

Please provide details of how the proposing university has addressed the objection. If the objection remains unresolved, please explain why it is in the best interests of the university system and the state that the Board override it.

New Resources Required? (i.e., faculty and administrative positions; infrastructure, etc.):

The proposed BS in Science requires no additional faculty or infrastructure but will require an advisor for student support and a program manager to administer the program. The associate dean for undergraduate student success in the college of science will oversee hiring these personnel.

| Plan to Request Program Fee/Differentiated Tuition? | NO |
|---|----|
|---|----|

Estimated Amount: N/A

Program Fee Justification: N/A

| Specialized Accreditation? | |
|----------------------------|--|
|----------------------------|--|

Accreditor: N/A

NO

THE UNIVERSITY OF ARIZONA

BUDGET PROJECTION FORM

| Name of Proposed Program or Unit: BS in Science | | Projected | | | | |
|--|--------------------------------|--------------------------------|--|--|--|--|
| Budget Contact Person: Kelly Grimm, Assistant Dean of Finance, | 4.1.1 | 2.17 | | | | |
| COS | 1st Year 2023 - 2024 | 2nd Year 2024 - 2025 | 3rd Year 2025 - 2026 | | | |
| | 2023 - 2024 | 2024 - 2023 | 2023 - 2020 | | | |
| METRICS | | | | | | |
| Net increase in annual college enrollment UG | 30 | 60 | 90 | | | |
| Net increase in college SCH UG | 390 | 825 | 1,201 | | | |
| 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 | - | - | - | | | |
| FUNDING SOURCES | | | | | | |
| Continuing Sources | | | | | | |
| UG AIB Revenue | 107,700 | 231,360 | 344,095 | | | |
| 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) | | | | | | |
| Total Continuing | \$ 107,700 | \$ 231,360 | \$ 344,095 | | | |
| One-time Sources | | | | | | |
| College fund balances | | | | | | |
| Institutional Strategic Investment | | | | | | |
| Gift Funding | | | | | | |
| Other Items (attach description) | | | | | | |
| Total One-time | \$ - | \$- | \$- | | | |
| TOTAL SOURCES | \$ 107,700 | | | | | |
| | ÷ 107,700 | <i>Ş</i> 231,300 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| EXPENDITURE ITEMS | | | | | | |
| Continuing Expenditures | | | | | | |
| Faculty | | | | | | |
| Other Personnel | 95,025 | 98,826 | 102,779 | | | |
| Employee Related Expense | 30,408 | 31,229 | 32,889 | | | |
| Graduate Assistantships | | | | | | |
| Other Graduate Aid | | | | | | |
| Operations (materials, supplies, phones, etc.) | | | | | | |
| Additional Space Cost | | | | | | |
| Other Items (attach description) | | | | | | |
| Total Continuing | \$ 125,433 | \$ 130,055 | \$ 135,668 | | | |
| One-time Expenditures | | | | | | |
| Construction or Renovation | | | | | | |
| Start-up Equipment | | | | | | |
| Replace Equipment | | | | | | |
| Library Resources | | | | | | |
| Other Items (attach description) | | | | | | |
| Total One-time | \$ - | \$ - | \$ - | | | |
| TOTAL EXPENDITURES | \$ 125,433 | \$ 130,055 | \$ 135,668 | | | |
| Net Projected Fiscal Effect | \$ (17,733) | \$ 101,305 | \$ 208,427 | | | |
| | <u>(1</u> ,,55) | <u> </u> | 200,727 | | | |

New Academic Program Budget Projection Form Justification

The program funding projection for the BS in Science includes three years of budget projection information related to the new major.

Metrics

We calculated the total number of SCH and enrollments (majors) we expect the program to generate each year for the college reflecting a net increase to the college. We also considered students transferring in from community colleges and SCH or enrollment within the college for students who might transfer to the new major. Our formulas per year reflect projected increases in the AIB model provided by the university.

As all courses are already delivered online. We do not anticipate needing to hire additional Faculty FTE needed for the major given minimal impact on any one course given the flexibility for course choice and the many courses available to students.

Funding Sources

Funding sources related to SCH and enrollments stem from the net new activity described in the metrics section above. No one-time funds are needed or funds from Reallocation of existing sources or Other Items sources.

No Institutional Strategic Investment funds are needed.

Expenditure Items

We budget the cost of an advisor to provide support for students and a program manager to administer the program factoring in annual raises. No other marginal costs, GA Assistantships or other expenditures related to the new program are expected (see information above).



New Academic Program PEER COMPARISON

| Program name, degree, | Proposed UA Program | Secondary Education - | | Multidisciplinary Science |
|-----------------------|--------------------------|------------------------------|----------------------------------|-------------------------------|
| and institution | BS in Science | General Science, Bachelor of | BS in Biological and Physical | Program |
| | DJ III JCIEIICE | Science in Education | Sciences | University of Oregon |
| | | Northern Arizona University | University of Houston | oniversity of oregon |
| | | , | Downtown | |
| Current number of | | 15 | 105 | 214 |
| students enrolled | | | | |
| Program Description | This degree provides | This degree equips | This degree provides a broad | The multidisciplinary science |
| | basic instruction in the | secondary mathematics and | curriculum in the liberal arts | degree allows students to |
| | core sciences including | science students (or teacher | and natural sciences designed | design academic programs |
| | biology, chemistry, | candidates) with the | to meet individual career | that satisfy the requirements |
| | and physics and | knowledge and practices | goals for students interested | for a BS degree while |
| | breadth in upper | necessary to teach diverse | in multidisciplinary areas such | providing more breadth than |
| | division coursework | learners. It prepares math | as environmental, forensic, | traditional science programs. |
| | requiring students to | and science teachers for | life, earth/geological sciences, | Many exciting areas of |
| | select 4 classes from | grades 6-12 STEM education | or medical or patent law, | scientific inquiry, such as |
| | one of several STEM | in both STEM and education | medical technology, public | bioinformatics, |
| | areas associated with | pedagogy. Faculty both | health, or science education. | environmental science, and |
| | the major and 4 | specialize in mathematics | This program will prepare | biophysical science, require |
| | additional courses | and science education | students for graduate work or | broad science backgrounds |
| | from any of the STEM | research and have extensive | for rewarding careers through | and encompass several |
| | areas. Students will | professional classroom | smaller classes, faculty | disciplines. |
| | gain breadth and | experience. | mentoring, modern labs, | |
| | depth in areas of | | hands-on experience, and | |
| | science of their | | flexible class options. | |
| | choosing ranging from | | | |
| | neuroscience, earth | | | |
| | systems and | | | |
| | sustainability, and | | | |
| | genetics, cell, and | | | |

| | molecular biology, and more. | | | |
|--|---|--|--|---|
| Target Careers | K-12 education, policy, law, medical and health services managers, medical assistants, natural sciences managers, entry level science technicians | Math and science teachers, grades 6-12 | Clinical Research Associate, Clinical Research Coordinator, Natural Science Manager, Medical Technologist, Forensic Scientist, Environmental Specialist, Data Analyst, Hydrologist, Secondary School Teacher, Medical Research Assistant | health sciences, science education, science-related business, science-related social service |
| Emphases? (Yes/No) List, if applicable | No | No | No | No |
| Minimum # of units required | 120 | 120 | 120 | 182 (Quarter System) |
| Level of Math required (if applicable) | S-Strand (substantial): Requires Calculus I and statistics | M-Strand (moderate): Precalculus | M-Strand (moderate): Precalculus and introductory programming | S-Strand (substantial): Requires Calculus I and Calculus II, Introductory Computer Programming, or Statistics |
| Level of Second Language required (if applicable) | Second semester proficiency | N/A | N/A | 4 th semester proficiency |
| Pre-Major? (Yes/No) If yes, provide requirements. | No | No | No | No |
| Special requirements to declare/gain admission? (i.e. pre-requisites, GPA, application, etc.) | 2.0 GPA | Complete 30 units of pre- major coursework with 2.5 GPA, declared Secondary Education Major, State- Approved Identity Verified Print fingerprint clearance card. | 2.0 GPA | 2.0 GPA |

| Internship, practicum, or | No | Yes. Students complete 12- | No | No |
|---------------------------|----|-----------------------------|----|----|
| applied/experiential | | unit teaching experience in | | |
| requirements? | | final year | | |
| If yes, describe. | | | | |

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.

The intended audience for the proposed program overlaps most closely with the B.S. in Multidisciplinary Science at the University of Oregon in terms of curriculum, faculty expertise, intended audience, and flexibility of the degree with a smaller number of required courses.

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 proposed program stands out for having a relatively small number of required units and providing students with an array of upper division STEM courses for maximum flexibility in pairing this degree with other degrees. As none of the other programs provide online delivery, this program provides opportunity for unmet student need.

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?

This degree in leaving 28-41 elective units open will allow maximum flexibility for students pursuing degrees that require knowledge of science, but do not require students to conduct science (e.g., education, law, journalism, business, economics, humanities, etc.) adding value to such degrees so that students are better prepared to apply their knowledge to the challenges of today. Although the program in Multidisciplinary Science at U Oregon has similar flexibility, U Oregon does not offer their program online allowing The University of Arizona to support an unserved student group.

Subject: Re: Approval for courses used in the proposed BA/BS in Science

Date: Friday, January 20, 2023 at 10:15:02 AM Mountain Standard Time

From: Castro, Christopher L - (clcastro)

- To: Zinsmaier, Konrad E (kez4), Gomez, Rebecca L (rgomez)
- **CC:** Doug Ulmer, Ryan, Lee (ryant), Schroeder, Joyce A (joyces), Worobey, Michael (worobey), Aspinwall, Craig A (aspinwal), Peterson, Mary A (mapeters)

Approved.

Christopher L. Castro, Ph.D. Professor and Interim Head Department of Hydrology and Atmospheric Sciences University of Arizona Harshbarger Building, Room 324J2 1133 E. James E. Rogers Way Tucson, AZ 85721-0081 USA

Office: +1 520 626-5617 Mobile, WhatsApp: +1 520 730-1886 Fax: +1 520 621-6833 E-mail: clcastro@email.arizona.edu Web page: <u>www.atmo.arizona.edu/personalpages/castro/castro.htm</u> Twitter: @CLCastro1974

From: Zinsmaier, Konrad E - (kez4) <kez4@arizona.edu>
Sent: Friday, January 20, 2023 10:13 AM
To: Gomez, Rebecca L - (rgomez) <rgomez@arizona.edu>
Cc: Doug Ulmer <ulmer@math.arizona.edu>; Ryan, Lee - (ryant) <ryant@arizona.edu>; Schroeder, Joyce A - (joyces) <joyces@arizona.edu>; Worobey, Michael - (worobey) <worobey@arizona.edu>; Aspinwall, Craig A - (aspinwal) <aspinwal@arizona.edu>; Castro, Christopher L - (clcastro) <clcastro@arizona.edu>; Peterson, Mary A - (mapeters) <mapeters@arizona.edu>
Subject: Re: Approval for courses used in the proposed BA/BS in Science

Approved.

Konrad E. Zinsmaier, Ph.D. Professor of Neuroscience and Molecular & Cellular Biology Head, Department of Neuroscience University of Arizona Department of Neuroscience Gould-Simpson Building 627 P.O. Box 210077 1040 E. 4th Street Tucson, AZ 85721-0077

phone: 520-626-1343 fax: 520-621-8282 On Jan 19, 2023, at 7:05 PM, Gomez, Rebecca L - (rgomez) <rgomez@arizona.edu> wrote:

Dear Doug, Lee, Joyce, Mike, Craig, Konrad, Chris, and Mary,

I am writing to obtain your approval to use the courses listed below from your departments in the proposed BS and BA in Science. The degrees will be offered in the online campus. Please respond to this email message and copy all. Please contact me directly on a different email thread with any questions.

Rebecca

-Math 122A (3) Functions of Calculus & Math 122B (3) First semester Calculus -Math 125 (3) Calculus -Math 113 (3) Elements of Calculus

Statistics Requirement. (3 units) Complete 1 of the following: -Math 163 or 263 (3) Basic Statistics or Intro to Statistics and Biostatistics -PSY 230 (3) Psychological Measurement and Statistics

Core Science Requirement. (16 units) Complete 4 of the following (complete at least one course from each of biology, chemistry, and physics):

-MCB 181 R/L (4) Introductory Biology I with lab -ECOL 182 R/L (4) Introductory Biology 2 with lab

-CHEM 141 & 145 (4) General Chemistry 1: Quantitative Approach with lab -CHEM 142 & 146 (4) General Chemistry 2: Quantitative Approach with lab

-PHYS 102 & 181 (4) Introductory Physics 1 with lab -PHYS 103 & 182 (4) Introductory Physics 2 with lab

Or

-PHYS 141 (4) Introductory Mechanics

-PHYS 241 (4) Introductory Electricity and Magnetism

-PHYS 242 (4) Introductory Relativity and Quantum Mechanics

Additional Science Requirement (7 units). Complete 2 of the following:

-NSCS 200 (3) Fundamentals of Neuroscience & Cognitive Science -PSY 101 (4) Introduction to Psychology

Capstone Requirement (1 unit)

-SCI 401 (1) Science Capstone

Upper division electives (24 units)

Students take at least 4 courses in one area and the remaining 4 courses from any of those listed below for a total of 8 upper division electives. Example areas are listed below. An area may also be a grouping of classes from a single STEM department.

Psychology

-PSY 300 (3) Cognitive Neuroscience: A Guide to Mind and Brain

-PSY 340 (3) Introduction to Cognitive Development

-PSY 352 (3) Personality

 -PSY 360 (3) Social Psychology -PSY 381 (3) Abnormal Psychology -PSY 383 (3) Health Psychology -PSY 324 (3) Fundamentals of Aging -PSY 412 (3) Animal Learning -PSY 480 (3) Forensic Psychology

Earth Systems and Sustainability

-ATMO 336 (3) Weather, Climate, and Society -HWRS 349A (3) Principals of Hydrology -HWRS 349B (3) Principals of Hydrology Lab -ATMO 436A (3) Weather Fundamentals

Genetics, Cell, and Molecular Biology

-ECOL 320 (4) Genetics -ECOL 326 (3) Genomics -MCB 404 (3) Bioethics -MCB 410 (3) Cell Biology -MCB 411 (3) Molecular Biology -MCB 422 (3) Problem Solving with Genetic Tools

Ecology, Evolution, and Animal Behavior

-ECOL 406R (3) Conservation Biology -ECOL 437 (4) Vertebrate Physiology -ECOL 485 (4) Mammalogy -ECOL 487R (3) Animal Behavior -ECOL 487L (1) Animal Behavior Lab -ECOL 488 (4) Arizona Mammals

Biochemistry

~CHEM 241A (3) Organic Chemistry Lecture I -CHEM 241B (3) Organic Chemistry Lecture 2 -BIOC 384 (3) Foundations in Biochemistry -BIOC 385 (3) Metabolic Biochemistry (~required for the remaining 3 courses in this grouping)

Neuroscience

*NROS 307 (3) Cellular Neurophysiology
*NROS 310 (3) Molecular and Cellular Biology of Neurons
*NROS 418 (3) Fundamental Principles of systems Neuroscience
-NROS 308 (3) Methods in Neuroscience
-NROS 330 (3) Principles of Neuroanatomy: Cells to Systems
-NROS 430 (3) Neurogenetics
-NROS 440 (3) How to build a Brain: Mechanisms of Neural Development (*recommended courses)

Cognitive Science

-NSCS 320 (3) Issues and Themes in Cognitive Science

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<image001.png>

^{ng>} Rebecca Gómez, PhD (She/Her/Ella)

Associate Dean for Undergraduate Student Success College of Science Professor of Psychology and Cognitive Science Gould-Simpson 1025 PO Box 210077 | Tucson, AZ 85721 rgomez@arizona.edu

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<image002.png>

Subject: Re: Approval for courses used in the proposed BA/BS in Science

Date: Friday, January 20, 2023 at 7:39:45 AM Mountain Standard Time

From: Doug Ulmer

To: Ryan, Lee - (ryant)

CC: Schroeder, Joyce A - (joyces), Gomez, Rebecca L - (rgomez), Worobey, Michael - (worobey), Aspinwall, Craig A - (aspinwal), Zinsmaier, Konrad E - (kez4), Castro, Christopher L - (clcastro), Peterson, Mary A - (mapeters)

I approve as well. -Doug

On Jan 20, 2023, at 6:29 AM, Ryan, Lee - (ryant) <<u>ryant@arizona.edu</u>> wrote:

l approve. Lee

Sent from Lee's smartphone

From: Schroeder, Joyce A - (joyces) <joyces@arizona.edu>
Sent: Thursday, January 19, 2023 8:11:35 PM
To: Gomez, Rebecca L - (rgomez) <<u>rgomez@arizona.edu</u>>; Doug Ulmer
<<u>ulmer@math.arizona.edu</u>>; Ryan, Lee - (ryant) <<u>ryant@arizona.edu</u>>; Worobey, Michael (worobey) <<u>worobey@arizona.edu</u>>; Aspinwall, Craig A - (aspinwal) <<u>aspinwal@arizona.edu</u>>;
Zinsmaier, Konrad E - (kez4) <<u>kez4@arizona.edu</u>>; Castro, Christopher L - (clcastro)
<<u>clcastro@arizona.edu</u>>; Peterson, Mary A - (mapeters) <<u>mapeters@arizona.edu</u>>
Cc: Gomez, Rebecca L - (rgomez) <<u>rgomez@arizona.edu</u>>
Subject: Re: Approval for courses used in the proposed BA/BS in Science

Approved

Joyce

From: Gomez, Rebecca L - (rgomez) <<u>rgomez@arizona.edu</u>>
Sent: Thursday, January 19, 2023 7:05:33 PM
To: Doug Ulmer <<u>ulmer@math.arizona.edu</u>>; Ryan, Lee - (ryant) <<u>ryant@arizona.edu</u>>;
Schroeder, Joyce A - (joyces) <<u>joyces@arizona.edu</u>>; Worobey, Michael - (worobey)
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<<u>clcastro@arizona.edu</u>>; Peterson, Mary A - (mapeters) <<u>mapeters@arizona.edu</u>>
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Rebecca

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Or

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Capstone Requirement (1 unit)

-SCI 401 (1) Science Capstone

Upper division electives (24 units)

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<image002.png>

Subject: Re: Approval for courses used in the proposed BA/BS in Science

Date: Thursday, January 19, 2023 at 9:03:29 PM Mountain Standard Time

From: Peterson, Mary A - (mapeters)

To:Aspinwall, Craig A - (aspinwal), Schroeder, Joyce A - (joyces), Gomez, Rebecca L - (rgomez),
Doug Ulmer, Ryan, Lee - (ryant), Worobey, Michael - (worobey), Zinsmaier, Konrad E - (kez4),
Castro, Christopher L - (clcastro)

CC: Gomez, Rebecca L - (rgomez)

Attachments: image003.png, image004.png, image005.png, image006.png

l approve. Best, Mary

Get Outlook for iOS

From: Aspinwall, Craig A - (aspinwal) <aspinwal@arizona.edu>
Sent: Thursday, January 19, 2023 8:18:04 PM
To: Schroeder, Joyce A - (joyces) <joyces@arizona.edu>; Gomez, Rebecca L - (rgomez)
<rgomez@arizona.edu>; Doug Ulmer <ulmer@math.arizona.edu>; Ryan, Lee - (ryant) <ryant@arizona.edu>;
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Cc: Gomez, Rebecca L - (rgomez) <rgomez@arizona.edu>
Subject: RE: Approval for courses used in the proposed BA/BS in Science

approved



Craig A Aspinwall, PhD

Department Head and Professor Chemistry & Biochemistry THE UNIVERSITY OF ARIZONA PO Box 210044 | Tucson, AZ 85721 Office: 520-621-6338 | Cell: 520-245-3398 aspinwal@arizona.edu

Executive Assistant: Lisa Arrotta Office: 520-621-5672 <u>lisaarrotta@arizona.edu</u>

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Date: Thursday, January 19, 2023 at 11:20:52 PM Mountain Standard Time

From: Worobey, Michael - (worobey)

To: Peterson, Mary A - (mapeters)

CC: Aspinwall, Craig A - (aspinwal), Schroeder, Joyce A - (joyces), Gomez, Rebecca L - (rgomez), Doug Ulmer, Ryan, Lee - (ryant), Zinsmaier, Konrad E - (kez4), Castro, Christopher L - (clcastro)

Attachments: image003.png, image004.png, image005.png, image006.png

Me too

Sent from my iPhone

On Jan 19, 2023, at 9:03 PM, Peterson, Mary A - (mapeters) <mapeters@arizona.edu> wrote:

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Subject: Re: Approval for courses used in the proposed BA/BS in Science

Date: Friday, January 20, 2023 at 11:21:06 AM Mountain Standard Time

From: Mazumdar, Sumitendra - (mazumdar)

To: Gomez, Rebecca L - (rgomez)

Attachments: image002.png, image001.png

Dear Rebecca:

I approve of the use of introductory physics courses in the proposed BA and BS in Science.

Sumit Mazumdar Professor and Head Department of Physics

From: Gomez, Rebecca L - (rgomez) <rgomez@arizona.edu>
Sent: Friday, January 20, 2023 10:35 AM
To: Mazumdar, Sumitendra - (mazumdar) <mazumdar@arizona.edu>
Cc: Gomez, Rebecca L - (rgomez) <rgomez@arizona.edu>
Subject: FW: Approval for courses used in the proposed BA/BS in Science

Dear Sumit, I apologize that I did not include you in the original request below. Can you approve use of introductory physics courses in the proposed BA and BS in Science?

Thank you,



Rebecca Gómez, PhD (She/Her/Ella)

Associate Dean for Undergraduate Student Success College of Science Professor of Psychology and Cognitive Science Gould-Simpson 1025 PO Box 210077 | Tucson, AZ 85721 <u>rgomez@arizona.edu</u>

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Core Science Requirement. (16 units) Complete 4 of the following (complete at least one course from each of biology, chemistry, and physics):

-MCB 181 R/L (4) Introductory Biology I with lab -ECOL 182 R/L (4) Introductory Biology 2 with lab

-CHEM 141 & 145 (4) General Chemistry 1: Quantitative Approach with lab -CHEM 142 & 146 (4) General Chemistry 2: Quantitative Approach with lab

-PHYS 102 & 181 (4) Introductory Physics 1 with lab -PHYS 103 & 182 (4) Introductory Physics 2 with lab

Or

-PHYS 141 (4) Introductory Mechanics

-PHYS 241 (4) Introductory Electricity and Magnetism

-PHYS 242 (4) Introductory Relativity and Quantum Mechanics

Additional Science Requirement (7 units). Complete 2 of the following:

-NSCS 200 (3) Fundamentals of Neuroscience & Cognitive Science -PSY 101 (4) Introduction to Psychology

Capstone Requirement (1 unit)

-SCI 401 (1) Science Capstone

Upper division electives (24 units)

Students take at least 4 courses in one area and the remaining 4 courses from any of those listed below for a total of 8 upper division electives. Example areas are listed below. An area may also be a grouping of classes from a single STEM department.

Psychology

-PSY 300 (3) Cognitive Neuroscience: A Guide to Mind and Brain
-PSY 340 (3) Introduction to Cognitive Development
-PSY 352 (3) Personality
-PSY 360 (3) Social Psychology
-PSY 381 (3) Abnormal Psychology
-PSY 383 (3) Health Psychology
-PSY 324 (3) Fundamentals of Aging
-PSY 412 (3) Animal Learning
-PSY 480 (3) Forensic Psychology

Earth Systems and Sustainability

-ATMO 336 (3) Weather, Climate, and Society -HWRS 349A (3) Principals of Hydrology -HWRS 349B (3) Principals of Hydrology Lab -ATMO 436A (3) Weather Fundamentals

Genetics, Cell, and Molecular Biology

-ECOL 320 (4) Genetics -ECOL 326 (3) Genomics -MCB 404 (3) Bioethics -MCB 410 (3) Cell Biology -MCB 411 (3) Molecular Biology -MCB 422 (3) Problem Solving with Genetic Tools

Ecology, Evolution, and Animal Behavior

-ECOL 406R (3) Conservation Biology -ECOL 437 (4) Vertebrate Physiology -ECOL 485 (4) Mammalogy -ECOL 487R (3) Animal Behavior -ECOL 487L (1) Animal Behavior Lab -ECOL 488 (4) Arizona Mammals

Biochemistry

~CHEM 241A (3) Organic Chemistry Lecture I -CHEM 241B (3) Organic Chemistry Lecture 2 -BIOC 384 (3) Foundations in Biochemistry -BIOC 385 (3) Metabolic Biochemistry (~required for the remaining 3 courses in this grouping)

Neuroscience

*NROS 307 (3) Cellular Neurophysiology
*NROS 310 (3) Molecular and Cellular Biology of Neurons
*NROS 418 (3) Fundamental Principles of systems Neuroscience
-NROS 308 (3) Methods in Neuroscience
-NROS 330 (3) Principles of Neuroanatomy: Cells to Systems
-NROS 430 (3) Neurogenetics
-NROS 440 (3) How to build a Brain: Mechanisms of Neural Development (*recommended courses)

Cognitive Science

-NSCS 320 (3) Issues and Themes in Cognitive Science -CGSC 344 (3) Modeling the Mind: Computational Models of Cognition -CGSC 310 (3) Multisensory Perception -PSY 300 (3) Cognitive Neuroscience: A Guide to Mind and Brain (note: students may count this course toward one grouping only)



Rebecca Gómez, PhD (She/Her/Ella)

Associate Dean for Undergraduate Student Success College of Science Professor of Psychology and Cognitive Science Gould-Simpson 1025 PO Box 210077 | Tucson, AZ 85721 rgomez@arizona.edu

LAND ACKNOWLEDGEMENT: 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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College of Science Office of the Dean 1040 E. Fourth Street Gould Simpson Bldg. Room 1025 PO Box 210077 Tucson, AZ 85721-0077 T: (520) 621-4090 F: (520) 621-8389 cos.arizona.edu

TO: UGC, U-CAAC

FROM: Rebecca Gómez, Associate Dean for Undergraduate Student Success, College of Science

CC: Carmala Garzione, Dean, College of Science

DATE: February 14, 2023

SUBJECT: U-CAAC requested changes to proposed BA and BS in Science

Students in the BA take 3 of 5 upper division courses in one area. Students in the BS take 4 of 7 upper division courses in one area. Different areas may have different prerequisites offered at the 100 and 200 level.

The U-CAAC subcommittee that reviewed the proposed BA and BS in Science raised a concern that students would have difficulty navigating the different concentration areas in the degrees.

The College of Science will address this concern by developing advising plans for each area to help guide students to the necessary prerequisites for their chosen area of focus and the additional courses they may or may not take outside their focus.



| From: | <u>Gomez, Rebecca L - (rgomez)</u> |
|--------------|--|
| То: | Madden, Melanie Christine - (melaniecmadden) |
| Cc: | <u>Gomez, Rebecca L - (rgomez)</u> |
| Subject: | FW: Meeting to put assessment plans for a new degree program in Taskstream |
| Date: | Thursday, March 23, 2023 4:04:15 PM |
| Attachments: | image001.png |
| | image002.png |
| | image003.png |
| | image004.png |
| | image005.png |
| | image006.png |
| | image007.png |
| | Assessment Plan BA.docx |

Dear Melanie,

Please see the email confirmation I received from Elaine. I would be happy to write a memo for her to sign that would provide more detailed information if the message below is insufficient either because it has so little information or because she only mentions the BA. If there are specific issues I need to highlight for UGC I'm happy to include those. This attachment specifically lists the assessment plan for the BA but I mention below that the assessment plan for the BS is identical. Please advise.



Rebecca Gómez, PhD (She/Her/Ella)

Associate Dean for Undergraduate Student Success College of Science Professor of Psychology and Cognitive Science Gould-Simpson 1025 PO Box 210077 | Tucson, AZ 85721 rgomez@arizona.edu

From: Marchello, Elaine V - (evm) <evm@arizona.edu>
Date: Monday, March 20, 2023 at 9:06 AM
To: Gomez, Rebecca L - (rgomez) <rgomez@arizona.edu>
Subject: RE: Meeting to put assessment plans for a new degree program in Taskstream

Hi Rebecca, Yes, I remember and after looking at the BA, I approve the assessment piece.

Elaine

Elaine Marchello, Ph.D. Assistant Director, Assessment University of Arizona University Center for Assessment, Teaching and Technology Integrated Learning Center Bldg 70 Room 105A Tucson, AZ 85721 (520) 621-1328

From: Gomez, Rebecca L - (rgomez) <rgomez@arizona.edu>
Sent: Friday, March 17, 2023 4:33 PM
To: Marchello, Elaine V - (evm) <evm@arizona.edu>
Cc: Gomez, Rebecca L - (rgomez) <rgomez@arizona.edu>
Subject: Re: Meeting to put assessment plans for a new degree program in Taskstream

Dear Elaine,

I understand that I will need an email from you confirming that we worked together to develop an assessment plan for the proposed BA and BS in Science and that you approve of our direct and indirect measures. I am attaching information from the proposal to remind you how we plan to approach this. We are using the same learning objectives and approach for the BA and BS in Science.

Many thanks and I hope you are doing well,



Rebecca Gómez, PhD (She/Her/Ella)

Associate Dean for Undergraduate Student Success College of Science Professor of Psychology and Cognitive Science Gould-Simpson 1025 PO Box 210077 | Tucson, AZ 85721 rgomez@arizona.edu

From: Gomez, Rebecca L - (rgomez) <<u>rgomez@arizona.edu</u>>
Date: Wednesday, January 18, 2023 at 10:08 AM
To: Marchello, Elaine V - (evm) <<u>evm@arizona.edu</u>>
Subject: Re: Meeting to put assessment plans for a new degree program in Taskstream

Dear Elaine,

Thank you so much for your help with this and for the extra time it took for you to add course titles. This looks perfect. Thank you also for the help you provided on the table I will need to include in the additional information form for curricular affairs. I'll be in touch after approval so I can start work on the rest of the assessment process.

Rebecca Gómez, PhD (She/Her/Ella)

Associate Dean for Undergraduate Student Success Professor of Psychology and Cognitive Science



Gould-Simpson 1025 PO Box 210077 | Tucson, AZ 85721 rgomez@arizona.edu

From: Marchello, Elaine V - (evm) <<u>evm@arizona.edu</u>>
Date: Wednesday, January 18, 2023 at 9:56 AM
To: Gomez, Rebecca L - (rgomez) <<u>rgomez@arizona.edu</u>>
Subject: RE: Meeting to put assessment plans for a new degree program in Taskstream

Rebecca,

Here is the map. I added the course titles to make it more detailed. Let me know if you have questions or need any changes.

Elaine



Elaine V Marchello, Ph.D.

Assistant Director, Assessment Office of Instruct & Assess THE UNIVERSITY OF ARIZONA

MP Integrated Learning Center, 105A PO Box 210070 | Tucson, AZ 85721 Office: 520-621-1328 <u>evm@email.arizona.edu</u>

Pronouns: She/her/hers

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From: Gomez, Rebecca L - (rgomez) <<u>rgomez@arizona.edu</u>>
Sent: Monday, January 16, 2023 12:24 PM
To: Marchello, Elaine V - (evm) <<u>evm@arizona.edu</u>>
Cc: Sheldon, Laurie - (lsheldon) <<u>lsheldon@arizona.edu</u>>
Subject: Re: Meeting to put assessment plans for a new degree program in Taskstream