THE UNIVERSITY OF ARIZONA

FORM TO REQUEST SUBSTANTIAL CHANGES TO AN EXISTING UNDERGRADUATE MAJOR

A request for substantial changes to an existing program requires approval from the school director/department head (managing administrator), college academic dean, Curricular Affairs, Undergraduate Council (UGC), and College Academic Administrators Council (CAAC). Additional approvals may be required, depending on the requested changes. Complete this form and submit to Office of Curricular Affairs no later than October 23, 2020 to be considered for inclusion in the 2021-2022 Academic Catalog.

I. Requested by (College & School/Department):
College of Science
School of Mind, Brain & Behavior
Neuroscience & Cognitive Undergraduate Program

II. Proposer's name, title, email and phone number:
Ulises Ricoy
Director, Neuroscience and Cognitive Science Undergraduate Program
ricoy@arizona.edu
(520) 621-7215

III. Degree, major and number of students enrolled in the major. If you have emphases (sub-plans), list the number of students enrolled by emphasis:
Pre-Neuroscience and Cognitive Science (PRNCND), Preparation: 382
Neuroscience and Cognitive Science (NCSBS), BS: 260
Emphasis in Cognition: 67
Emphasis in Computation: 14
Emphasis in Development and Aging: 17
Emphasis in Language and Communication Science: 6
Emphasis in Neurobiology: 108
Emphasis in Philosophy of Mind: 13
Emphasis in Thematic: 3
Emphasis not yet declared: 32

IV. Describe proposed changes to the major. Provide a rationale and explanation for making changes to the major and include any relevant supporting data. Are the changes proposed a result of Annual Program Review (APR) and/or a result from the assessment of programmatic outcomes? If you are requesting a name change, please indicate if the subject code (course prefix) will also change. Include requested new prefix code and description.

We would like to eliminate the pre-major and admissions requirements for our major. When our major was created, the ability to control the number of students in the full major was critical due to the limited resources available at the time. This is no longer necessary, and we have removed the cap on the number of students we will accept into the full major. We also believe that eliminating the pre-major will aid in our goal of increasing diversity and inclusion within the major.

V. Comparison Chart–complete the chart below using your existing academic advisement report. You may not need to complete all portions. Highlight row(s) indicating the proposed significant changes. You can find course information to help complete the chart below by using the UA course catalog or UAnalytics (Catalog and Schedule Dashboard> "Printable Course Descriptions by Department" On Demand Report; right side of screen). Proposed changes resulting in similar curriculum with other plans (within department, college, or university) may require completion of an additional comparison chart.

	Existing Major Requirements	**Requirements For Modified Major**
Major, emphasis (if applicable) and degree *	Neuroscience and Cognitive Science, BS	Neuroscience and Cognitive Science, BS
CIP Code –lookup here or contact the Office of Curricular Affairs for assistance, if needed	26.1501 - Neuroscience	26.1501 - Neuroscience
Total units required to complete the degree*	120	120
Upper -division units required to complete the degree	42	42
Total CC transfer units that may apply to this degree*	64	64
Foundation courses		
Math	Substantial Math Strand	Substantial Math Strand
Second Language	Second Semester Proficiency	Second Semester Proficiency
General Education		
Tier I GE Requirements (150, 160, 170)	2- Tier 1 150 (INDV) 2- Tier 1 160 (TRAD) 0- Tier 1 170 (NATS)	2- Tier 1 150 (INDV) 2- Tier 1 160 (TRAD) 0- Tier 1 170 (NATS)
Tier II GE Requirements (Arts, HUMS, INDV, NATS)	3 units -Tier II Arts 1-Tier II Humanities 1- Tier II Individuals and Societies 0-Tier II Natural Sciences	3 units -Tier II Arts 1-Tier II Humanities 1- Tier II Individuals and Societies 0-Tier II Natural Sciences
Pre-major? (Yes/No)	Yes	No
List any special requirements to declare or gain admission to this major (completion of specific coursework, minimum GPA, interview, application, etc.)	1. Completion of pre-major coursework with a 2.5 GPA: CHEM 151 (4) General Chemistry I MCB 181 R (3) Introductory Biology I MCB 181 L (1) Introductory Biology I Laboratory	None

	MATH 122B (4) First-Semester Calculus MATH 263 (3) Introduction to Statistics and Biostatistics *OR* PSY 230 (3) Psychological Measurement and Statistics 2. Submit application 3. Complete gateway course NSCS 200 (3) Fundamentals of Neuroscience and Cognitive Science with a grade of 3.0 or higher	
Minimum # of units required in the major (units counting towards major units and major GPA)	35	35
Minimum # of upper-division units required in the major (upper division units counting towards major GPA)	32	32
Minimum # of residency units to be completed in the major	18	18
Required supporting coursework (courses that do not count towards major units and major GPA, but are required for the major). Courses listed must include prefix, number, units, and title. Include any limits/restrictions in place/needed (house number limit, etc.). Provide email(s)/letter(s) of support from home department head(s) for courses not owned by your department.	CHEM 151 (4) General Chemistry I (or equivalent) MCB 181R (3) Introductory Biology I MCB 181L (1) Introductory Biology I Laboratory MATH 122B (4) First-Semester Calculus MATH 263 (3) Introduction to Statistics and Biostatistics *OR* PSY 230 (3) Psychological Measurement and Statistics PHIL 241 (3) Consciousness and Cognition PHYS 102 (3) Introductory Physics I PHYS 181 (1) Introductory Laboratory I NEUROSCIENCE FOCUS ONLY: CHEM 152 (4) General Chemistry II (or equivalent)	CHEM 151 (4) General Chemistry I (or equivalent) MCB 181R (3) Introductory Biology I MCB 181L (1) Introductory Biology I Laboratory MATH 122B (4) First-Semester Calculus MATH 263 (3) Introduction to Statistics and Biostatistics *OR* PSY 230 (3) Psychological Measurement and Statistics PHIL 241 (3) Consciousness and Cognition PHYS 102 (3) Introductory Physics I PHYS 181 (1) Introductory Laboratory I NEUROSCIENCE FOCUS ONLY: CHEM 152 (4) General Chemistry II (or equivalent)

	CHEM 241A (3) Lecture Organic Chemistry CHEM 243A (1) Organic Chemistry Laboratory I PHYS 103 (3) Introductory Physics II PHYS 182 (1) Introductory Laboratory II COGNITIVE SCIENCE FOCUS ONLY: Three courses from at least two categories (multiple options in each category): Cognitive Psychology Linguistics Philosophy	CHEM 241A (3) Lecture Organic Chemistry CHEM 243A (1) Organic Chemistry Laboratory I PHYS 103 (3) Introductory Physics II PHYS 182 (1) Introductory Laboratory II COGNITIVE SCIENCE FOCUS ONLY: Three courses from at least two categories (multiple options in each category): Cognitive Psychology Linguistics Philosophy
Major requirements. List all major requirements including core and electives. If applicable, list the emphasis^ requirements. 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 in place/needed (house number limit, etc.). Provide email(s)/letter(s) of support from home department head(s) for courses being added and are not owned by your department. Recommend ordering requirements in the same order as your advisement report.	NSCS 200 (3) Fundamentals of Neuroscience and Cognitive Science NSCS 307 (3-4) Cellular Neurophysiology NSCS 308 (1) Methods in Neuroscience NSCS 311 (3) Scientific Programming with MATLAB NSCS 320 (3) Issues and Themes in Cognitive Science NSCS 321 (1) Methods in Cognitive Science 15 units from chosen emphasis NEUROSCIENCE FOCUS ONLY: NROS 310 (3-4) Molecular and Cellular Biology of Neurons NROS 418 (3) Fundamental Principles of Systems Neuroscience COGNITIVE SCIENCE FOCUS ONLY: NSCS 344 (3) Modeling the Mind: Computational Models of Cognition Two courses from a list of Cognition electives	NSCS 200 (3) Fundamentals of Neuroscience and Cognitive Science NSCS 307 (3-4) Cellular Neurophysiology NSCS 308 (1) Methods in Neuroscience NSCS 311 (3) Scientific Programming with MATLAB NSCS 320 (3) Issues and Themes in Cognitive Science NSCS 321 (1) Methods in Cognitive Science 15 units from chosen emphasis NEUROSCIENCE FOCUS ONLY: NROS 310 (3-4) Molecular and Cellular Biology of Neurons NROS 418 (3) Fundamental Principles of Systems Neuroscience COGNITIVE SCIENCE FOCUS ONLY: NSCS 344 (3) Modeling the Mind: Computational Models of Cognition Two courses from a list of Cognition electives
Internship, practicum, applied course requirements. (Yes/No). If yes, provide description.	No	No

Senior thesis or senior project required (Yes/No). If yes, provide description.	No	No
Additional requirements (provide description)	Program Assessment: Students must complete a program assessment exam after completing the common core courses	Program Assessment: Students must complete a program assessment exam after completing the common core courses
Minor (optional or required)	Optional	Optional

*May require Arizona Board of Regents (ABOR) approval

^Emphases are officially recognized sub-specializations within the discipline. ABOR Policy 2-221 c. Academic Degree Programs Subspecializations requires all undergraduate emphases within a major to share at least 40% curricular commonality across emphases (known as "major core"). Total units required for each emphasis must be equal.

VI. **Peer institution comparison-** describe how your modified major requirements are similar and different from major requirements of two peer institutions. Select peers from (in order of priority) ABOR approved institutions, AAU members, and/or other relevant institutions recognized in the field.

N/A

VII. **Faculty impact**– indicate if new faculty hires will be required to deliver the proposed modified/new curriculum.

There are no modifications to the curriculum

VIII. **Budgetary impact**– indicate new resources needed and source of funding to implement the proposed changes. If reallocating resources, indicate where resources will be taken from and the impact this will have on students/faculty/program/unit.

No new resources are needed

IX. Required signatures

Managing unit administrator (print name and title): Ulises Ricoy Associate Scientist; Faculty Director NSCS

Managing administrator's signature: _____ Date: 08/27/20

Managing unit administrator (print name and title): Alan Nighorn, Chair School of Mind Brain and Behavior, Dept head Neuroscience

Managing administrator's signature: _____ Date: 08/27/2020

Dean (print name): Elliott Cheu

Dean's signature: _____ Date: 8/28/2020

Dean (print name): _____

Dean's signature: _____ Date: _____

Note: In some situations, signatures of more than one unit head and/or college dean may be required.

For use by Curricular Affairs:

Committee	Approval date
Academic Programs Subcommittee	
Undergraduate Council	
College Academic Administrators Council	
Arizona Board of Regents (if applicable)	

☐ Notify proposers of approval
☐ Upload proposal documents to relevant UAccess tables
☐ Notify ADVIP team and proposers

If ABOR approval required :
☐ If applicable, create approval memo
☐ Send memo to college/dept and acad_org listserv.
☐ If applicable, create new plan code (secondary too)
☐ If applicable, update emphases
☐ If applicable, add last admit term to prior plan code(s)
☐ Upload proposal docs to relevant UAccess table values
☐ Notify ADVIP team and proposers