

MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

Dr. Melanie Autin
Dr. Nahid Gani
Dr. Scott Grubbs
Dr. Ting-Hui Lee
Dr. Jeremy Maddox

Dr. Andy Mienaltowski
Dr. Les Pesterfield
Dr. Todd Willian
Mr. Jason Wilson

FROM: Dr. Stuart Burris, Chair

SUBJECT: Agenda for Thursday, January 5, 2023

A. OLD BUSINESS:

- I. Consideration of the minutes of the December 1, 2022 meeting.

B. NEW BUSINESS:

Type of item	Description of Item & Contact Information
Action	Proposal to Change a Program Ref. 747/747E: Psychological Sciences, 37-49 hrs. Contact: Andrew Mienaltowski, Andrew.mienaltowski@wku.edu , 270-681-0270

C. OTHER BUSINESS

Members Present:

Dr. Melanie Autin
Dr. Nahid Gani
Dr. Scott Grubbs
Dr. Ting-Hui Lee
Dr. Jeremy Maddox
Dr. Andy Mienaltowski
Dr. Les Pesterfield
Dr. Todd Willian
Mr. Jason Wilson

Guests: Dr. Rohan Gani

FROM: Dr. Stuart Burris, Chair

The meeting was called to order at 4:00pm.

OLD BUSINESS:

Minutes from the October 2022 meeting required no corrections and were approved as posted.

NEW BUSINESS:

Action Agenda

Willian/Wilson motioned to approve the Proposal to Make Multiple Course Revisions: GEOL 301. Motion passed.

Grubbs/Autin motioned to approve the Proposal to Create a New Course: PHYS 415. Motion passed.

Autin/Grubbs motioned to approve the Proposal to Create a New Course: PHYS 416. Motion passed.

Pesterfield/Wilson motioned to approve the Proposal to Create a New Course: PHYS 417. Motion passed.

Autin/Mienaltowski motioned to approve the Proposal to Make Multiple Course Revisions: PSYS 462. Motion passed.

Other Business:

None

Program Change Request

Date Submitted: 12/02/22 7:18 am

Viewing: **747E/747 : Psychological Science,**

Bachelor of Science

Last approved: 05/10/22 9:52 am

Last edit: 12/02/22 7:18 am

Changes proposed by: and30774

Catalog Pages

Using this Program

[Psychological Science, Bachelor of Science \(747\)](#)

Proposed Action

Active

In Workflow

1. PSYS Approval
2. SC Dean
3. SC Curriculum Committee
4. Undergraduate Curriculum Committee
5. University Senate
6. Provost
7. Program Inventory

Approval Path

1. 12/14/22 5:46 pm
Kelly Madole
(kelly.madole):
Approved for PSYS Approval
2. 01/02/23 7:41 am
Stuart Burris
(stuart.burris):
Approved for SC Dean

History

1. May 26, 2021 by
Rheanna Plemons
(rheanna.plemons)
2. Sep 27, 2021 by
Jennifer Hammonds
(jennifer.hammonds)
3. Oct 13, 2021 by
Jessica Dorris
(jessica.dorris)
4. May 10, 2022 by
Andrew Mienaltowski
(andrew.mienaltowski)

Contact Person

Name	Email	Phone
Andrew Mienaltowski	andrew.mienaltowski@wku.edu	270-681-0270

Term of Implementation 2023-2024

Program Reference Number 747E/747

Review Type Full Review

Academic Level Undergraduate

Program Type Major

Degree Types Bachelor of Science

Department Psychological Sciences

College Science and Engineering

Program Name (eg. Biology) Psychological Science, Bachelor of Science

Will this program have concentrations?
Yes

Concentrations

Concentrations

Applied Psychological Science (PAPS)

Biobehavioral Psychology (PBBP)

Clinical Psychological Science (PCPS)

Cognitive Psychology (PCGP)

Developmental Science (PDVS)

Neuroscience (PNEU)

Social Psychology (PSOP)

Quantitative Psychology (PSQP)

General (PGEN)

CIP Code 42.2799 - Research and Experimental Psychology, Other.

Will this program lead to teacher certification? No

Does the proposed program contain 25% or more new content not previously taught in another course at WKU? If yes, contact the Office of the Provost for additional SACSCOC proposal requirements

No

Catalog Content

Program Overview (Catalog field: Overview tab)

The Department of Psychological Sciences offers programs designed for students who are interested in a science-oriented degree that will prepare them for graduate study in [psychology](#), [neuroscience](#), [psychology](#) or a related field (e.g., medical school, pharmacy, physical therapy) or for employment in jobs where strong quantitative and research skills are required.

Curriculum Requirements (Catalog field: Program Requirements)

Program Requirements (37-49 hours)

The department provides two options for the Bachelor of Science degree. The non-extended option requires a minimum of 37 credit hours and a minor or second major is required. The extended option requires a minimum of 49 unduplicated credit hours and no minor or second major is required. For both options, students will complete a program of study that includes Core and Concentration components as well as a Laboratory Experience component. To complete the Core requirement, students will select a total of 25 to 28 credit hours from the following categories: Foundations of Psychology, Developmental Processes, Learning and Cognition, Individual Differences and Social Processes, Biological Bases of Behavior and Mental Processes, Research Methods and Statistics, and Integrative Science in Psychology. To complete the Concentration requirement, students will select courses from one or two of the six thematic concentrations or they may design a general concentration (subject to approval by their advisor). To complete the Laboratory Experience component, students will complete one PSYS lab course or one PSYS lecture / lab course at the 300-level or above. Students in the non-extended option will complete 12 credit hours from one thematic concentration, or design a custom concentration by selecting 12-24 hours from PSYS courses not used to satisfy their Core requirement. Students choosing the extended option will complete 24 credit hours from two concentrations or 24 – 25 hours from the quantitative psychology concentration.

[The interdisciplinary neuroscience concentration is a single concentration option for students. Students in this concentration complete 56-58 hours of courses with an emphasis on neuroscience. Students who select this concentration cannot minor in Neuroscience.](#)

Students must maintain a minimum 2.50 GPA both overall and in the major. Either

[MATH 116](#) and [MATH 117](#), or

[MATH 118](#) or higher is required; [MATH 183](#) is recommended.

Students who select the extended option with the quantitative psychology concentration must complete [MATH 136](#). [To satisfy the math requirement for the major, students in the neuroscience concentration may also complete MATH 136.](#)

Students in the non-extended option of the Psychological Science major can count no more than 3 credits of [PSYS 490](#) toward the major. Students in the extended [option, including the quantitative concentration, option](#) may count no more than 6 credits of [PSYS 490](#) towards [the the](#) major, with no more than 3 credits counting toward a single concentration's [requirements, requirements. PSYS 300 is recommended to meet the Colonnade: Students in the neuroscience concentration of the Psychological Science major may count no more than 3 credits of PSYS 490 towards the major. PSYS 300 is recommended to meet the Colonnade:](#) Writing in the Disciplines requirement but does not satisfy major requirements.

[The Psychological Science major includes laboratory experiences. In addition to completing a laboratory in research methods, students in the non-extended option of the major and in the extended option of the major \(including the](#)

quantitative concentration) complete one additional laboratory experience. Students in the neuroscience concentration complete two additional psychological science laboratory experiences in addition to the research methods laboratory.

Approved Shared Content from /shared/undergraduate-major-requirements/
Last Approved: Jul 6, 2022 10:48am

A baccalaureate degree requires a minimum of 120 unduplicated semester hours. More information can be found at www.wku.edu/registrar/degree_certification.php.

Students who began WKU in the Fall 2014 and thereafter should review the Colonnade requirements located at: <https://www.wku.edu/colonnade/colonnaderequirements.php>.

Concentrations for the general and extended major:

[Applied Psychological Science](#)

[Biobehavioral Psychology](#)

[Clinical Psychological Science](#)

[Cognitive Psychology](#)

[Developmental Science](#)

[Neuroscience](#)

[Social Psychology](#)

[Quantitative Psychology](#)

[General Concentration](#)

Applied Psychological Science Concentration

This concentration focuses on how psychological science can be used to solve real-world problems in business, sports, or human engineering domains.

Core Courses

PSYS 100	Introduction to Psychology	3
or PSYS 160	Introduction to Biopsychology	
PSYS 220	Introduction to Lifespan Developmental Psychology	3
or PSYS 321	Child Developmental Psychology	
PSYS 333	Cognitive Psychology	3
PSYS 350	Social Psychology	3
Select one of the following:		3
PSYS 360	Behavioral Neuroscience	
PSYS 363	Sensory and Perceptual Systems	
PSYS 210	Research Methods in Psychology	3
PSYS 211	Research Methods in Psychology Laboratory	1
PSYS 313	Statistics in Psychology	3

Select one of the following:

3

[PSYS 380](#)

Psychology and Science Fiction

[PSYS 481](#)

History of Psychology

[PSYS 490](#)

Independent Study in
Psychological Sciences

Concentration Courses

Required Course:

[PSYS 413](#)

Psychological Measurement

Select 9 hours from the following:

9

[PSYS 353](#)

Psychology of Prejudice and
Stereotyping

[PSYS 360](#)

Behavioral Neuroscience

or [PSYS 363](#)

Sensory and Perceptual Systems

[PSYS 370](#)

Industrial / Organizational
Psychology

[PSYS 433](#)

Judgment and Decision Making

[PSYS 450](#)

Psychology of Personality

[PSYS 473](#)

Training in Business and Industry

[PSYS 481](#)

History of Psychology

[PSYS 490](#)

Independent Study in
Psychological Sciences

[PSYS 499](#)

Senior Seminar in Psychology

[PSY 340](#)

Sport Psychology

[PSY 355](#)

Issues in Cross-Cultural
Psychology

[PSY 412](#)

Psychology of Motivation and
Emotion

[PSY 470](#)

Psychology and Law

Laboratory Experience

Select one course from the following:

1-3

[PSYS 322](#)

[Laboratory in Developmental
Psychology](#)

[PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING](#)

[Course PSYS 332 LABORATORY
IN HUMAN AND ANIMAL
LEARNING Not Found](#)

<u>PSYS 334</u>	<u>Laboratory in Cognition</u>
<u>PSYS 365</u>	<u>Laboratory in Behavioral Neuroscience</u>
<u>PSYS 413</u>	Psychological Measurement
<u>PSYS 415</u>	<u>Programming for Social Sciences</u>
Total Hours	35-37

Biobehavioral Psychology Concentration

This concentration provides knowledge of the biological bases of behavior and thought.

Core Courses

<u>PSYS 100</u>	Introduction to Psychology	3
or <u>PSYS 160</u>	Introduction to Biopsychology	
<u>PSYS 220</u>	Introduction to Lifespan Developmental Psychology	3
or <u>PSYS 321</u>	Child Developmental Psychology	
<u>PSYS 331</u>	Principles of Human and Animal Learning	3
<u>PSYS 350</u>	Social Psychology	3
or <u>PSYS 440</u>	Abnormal Psychology	
<u>PSYS 360</u>	Behavioral Neuroscience	3
<u>PSYS 210</u>	Research Methods in Psychology	3
<u>PSYS 211</u>	Research Methods in Psychology Laboratory	1
<u>PSYS 313</u>	Statistics in Psychology	3
Select one of the following:		3
<u>PSYS 380</u>	Psychology and Science Fiction	
<u>PSYS 481</u>	History of Psychology	
<u>PSYS 490</u>	Independent Study in Psychological Sciences	

Concentration Courses

<u>PSYS 363</u>	Sensory and Perceptual Systems	3
Select 9 hours from the following:		9
<u>PSYS 333</u>	Cognitive Psychology	
<u>PSYS 431</u>	Psychology of Language	

<u>PSYS 444</u>	Psychology of Substance Use Disorders
<u>PSYS 462</u>	Neuroscience of Learning and Memory
<u>PSYS 463</u>	Evolutionary Psychology
<u>PSYS 465</u>	Psychopharmacology
<u>PSYS 482</u>	Psychology of Sexuality
<u>PSYS 490</u>	Independent Study in Psychological Sciences
<u>PSYS 499</u>	Senior Seminar in Psychology

Laboratory Experience

Select one course from the following:

1-3

<u>PSYS 322</u>	Laboratory in Developmental Psychology
<u>PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING</u>	<u>Course PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING Not Found</u>
<u>PSYS 334</u>	Laboratory in Cognition
<u>PSYS 365</u>	Laboratory in Behavioral Neuroscience
<u>PSYS 413</u>	Psychological Measurement
<u>PSYS 415</u>	Programming for Social Sciences

Total Hours

38-40

Clinical Psychological Science Concentration

This concentration focuses on mechanisms and etiologies of psychological health and dysfunction.

Core Courses

<u>PSYS 100</u>	Introduction to Psychology	3
or <u>PSYS 160</u>	Introduction to Biopsychology	
<u>PSYS 220</u>	Introduction to Lifespan Developmental Psychology	3
or <u>PSYS 321</u>	Child Developmental Psychology	
<u>PSYS 331</u>	Principles of Human and Animal Learning	3
or <u>PSYS 333</u>	Cognitive Psychology	
<u>PSYS 440</u>	Abnormal Psychology	3

<u>PSYS 210</u>	Research Methods in Psychology	3
<u>PSYS 211</u>	Research Methods in Psychology Laboratory	1
<u>PSYS 313</u>	Statistics in Psychology	3
Select one of the following:		3
<u>PSYS 360</u>	Behavioral Neuroscience	
<u>PSYS 363</u>	Sensory and Perceptual Systems	
Select one of the following:		3
<u>PSYS 380</u>	Psychology and Science Fiction	
<u>PSYS 481</u>	History of Psychology	
<u>PSYS 490</u>	Independent Study in Psychological Sciences	
Concentration Courses		
Select 12 hours from the following:		12
<u>PSYS 350</u>	Social Psychology	
<u>PSYS 353</u>	Psychology of Prejudice and Stereotyping	
<u>PSYS 360</u>	Behavioral Neuroscience	
<u>PSYS 413</u>	Psychological Measurement	
<u>PSYS 423</u>	Psychology of Adult Life and Aging	
<u>PSYS 425</u>	Developmental Psychopathology	
<u>PSYS 442</u>	Psychology of Suicide and Self- Injury	
<u>PSYS 444</u>	Psychology of Substance Use Disorders	
<u>PSYS 450</u>	Psychology of Personality	
<u>PSYS 451</u>	Psychology of Religion	
<u>PSYS 453</u>	Psychology of Women	
<u>PSYS 462</u>	Neuroscience of Learning and Memory	
<u>PSYS 465</u>	Psychopharmacology	
<u>PSYS 481</u>	History of Psychology	
<u>PSYS 482</u>	Psychology of Sexuality	
<u>PSYS 490</u>	Independent Study in Psychological Sciences	

Laboratory Experience

1-3

Select one course from the following:

PSYS 322

Laboratory in Developmental Psychology

PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING

Course PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING Not Found

PSYS 334

Laboratory in Cognition

PSYS 365

Laboratory in Behavioral Neuroscience

PSYS 413

Psychological Measurement

PSYS 415

Programming for Social Sciences

Total Hours

38-40

Cognitive Psychology Concentration

This concentration emphasizes the scientific study of mental processes such as attention, perception, memory, problem-solving, thinking, and language use.

Core Courses

PSYS 100

Introduction to Psychology

3

or PSYS 160

Introduction to Biopsychology

PSYS 220

Introduction to Lifespan Developmental Psychology

3

or PSYS 321

Child Developmental Psychology

PSYS 333

Cognitive Psychology

3

PSYS 350

Social Psychology

3

or PSYS 440

Abnormal Psychology

Select one of the following:

3

PSYS 360

Behavioral Neuroscience

PSYS 363

Sensory and Perceptual Systems

PSYS 210

Research Methods in Psychology

3

PSYS 211

Research Methods in Psychology Laboratory

1

PSYS 313

Statistics in Psychology

3

Select one of the following:

3

<u>PSYS 380</u>	Psychology and Science Fiction
<u>PSYS 481</u>	History of Psychology
<u>PSYS 490</u>	Independent Study in Psychological Sciences

Concentration Courses

Select 12 hours from the following: 12

<u>PSYS 331</u>	Principles of Human and Animal Learning
<u>PSYS 363</u>	Sensory and Perceptual Systems
<u>PSYS 423</u>	Psychology of Adult Life and Aging
<u>PSYS 431</u>	Psychology of Language
<u>PSYS 433</u>	Judgment and Decision Making
<u>PSYS 462</u>	Neuroscience of Learning and Memory
<u>PSYS 490</u>	Independent Study in Psychological Sciences
<u>PSYS 499</u>	Senior Seminar in Psychology
<u>PSY 412</u>	Psychology of Motivation and Emotion

Laboratory Experience

Select one of the following courses: 1-3

<u>PSYS 322</u>	Laboratory in Developmental Psychology
<u>PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING</u>	<u>Course PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING Not Found</u>
<u>PSYS 334</u>	Laboratory in Cognition
<u>PSYS 365</u>	Laboratory in Behavioral Neuroscience
<u>PSYS 413</u>	Psychological Measurement
<u>PSYS 415</u>	Programming for Social Sciences

Total Hours 38-40

Developmental Science Concentration

This addresses the physical, emotional, intellectual, social, perceptual, and personality growth of humans throughout the lifespan.

Concentration Courses

Core Courses

PSYS 100	Introduction to Psychology	3
or PSYS 160	Introduction to Biopsychology	
PSYS 220	Introduction to Lifespan Developmental Psychology	3
or PSYS 321	Child Developmental Psychology	
PSYS 331	Principles of Human and Animal Learning	3
or PSYS 333	Cognitive Psychology	
PSYS 350	Social Psychology	3
or PSYS 440	Abnormal Psychology	
Select one of the following:		3
PSYS 360	Behavioral Neuroscience	
PSYS 363	Sensory and Perceptual Systems	
PSYS 210	Research Methods in Psychology	3
PSYS 211	Research Methods in Psychology Laboratory	1
PSYS 313	Statistics in Psychology	3
Select one of the following:		3
PSYS 380	Psychology and Science Fiction	
PSYS 481	History of Psychology	
PSYS 490	Independent Study in Psychological Sciences	
Select 12 hours from the following:		12
PSYS 220	Introduction to Lifespan Developmental Psychology	
PSYS 321	Child Developmental Psychology	
PSYS 423	Psychology of Adult Life and Aging	
PSYS 424	Topics in Developmental Psychology	
PSYS 425	Developmental Psychopathology	
PSYS 431	Psychology of Language	
PSYS 453	Psychology of Women	

<u>PSYS 463</u>	Evolutionary Psychology	
<u>PSYS 482</u>	Psychology of Sexuality	
<u>PSYS 490</u>	Independent Study in Psychological Sciences	
<u>PSYS 499</u>	Senior Seminar in Psychology	
Laboratory Experience		
Select one of the following courses:		1-3
<u>PSYS 322</u>	Laboratory in Developmental Psychology	
<u>PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING</u>	<u>Course PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING Not Found</u>	
<u>PSYS 334</u>	Laboratory in Cognition	
<u>PSYS 365</u>	Laboratory in Behavioral Neuroscience	
<u>PSYS 413</u>	Psychological Measurement	
<u>PSYS 415</u>	Programming for Social Sciences	
Total Hours		38-40

Social Psychology Concentration

This concentration emphasizes the study of how social situations affect behavior.

Core Courses

<u>PSYS 100</u>	Introduction to Psychology	3
or <u>PSYS 160</u>	Introduction to Biopsychology	
<u>PSYS 220</u>	Introduction to Lifespan Developmental Psychology	3
or <u>PSYS 321</u>	Child Developmental Psychology	
<u>PSYS 331</u>	Principles of Human and Animal Learning	3
or <u>PSYS 333</u>	Cognitive Psychology	
<u>PSYS 350</u>	Social Psychology	3
Select one of the following:		3
<u>PSYS 360</u>	Behavioral Neuroscience	
<u>PSYS 363</u>	Sensory and Perceptual Systems	
<u>PSYS 210</u>	Research Methods in Psychology	3

<u>PSYS 211</u>	Research Methods in Psychology Laboratory	1
<u>PSYS 313</u>	Statistics in Psychology	3
Select one of the following:		3
<u>PSYS 380</u>	Psychology and Science Fiction	
<u>PSYS 481</u>	History of Psychology	
<u>PSYS 490</u>	Independent Study in Psychological Sciences	
Concentration Courses		
<u>PSYS 413</u>	Psychological Measurement	
Select 9 hours from the following:		9
<u>PSYS 353</u>	Psychology of Prejudice and Stereotyping	
<u>PSYS 433</u>	Judgment and Decision Making	
<u>PSYS 440</u>	Abnormal Psychology	
<u>PSYS 450</u>	Psychology of Personality	
<u>PSYS 451</u>	Psychology of Religion	
<u>PSYS 453</u>	Psychology of Women	
<u>PSYS 463</u>	Evolutionary Psychology	
<u>PSYS 482</u>	Psychology of Sexuality	
<u>PSYS 490</u>	Independent Study in Psychological Sciences	
<u>PSYS 499</u>	Senior Seminar in Psychology	
<u>PSY 412</u>	Psychology of Motivation and Emotion	
Laboratory Experience		1-3
<u>PSYS 322</u>	<u>Laboratory in Developmental Psychology</u>	
<u>PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING</u>	<u>Course PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING Not Found</u>	
<u>PSYS 334</u>	<u>Laboratory in Cognition</u>	
<u>PSYS 365</u>	<u>Laboratory in Behavioral Neuroscience</u>	
<u>PSYS 413</u>	Psychological Measurement	

General Concentration

This concentration allows students, with help from their advisor, to design an individualized theme.

Core Courses

<u>PSYS 100</u>	Introduction to Psychology	3
or <u>PSYS 160</u>	Introduction to Biopsychology	
<u>PSYS 220</u>	Introduction to Lifespan Developmental Psychology	3
or <u>PSYS 321</u>	Child Developmental Psychology	
<u>PSYS 331</u>	Principles of Human and Animal Learning	3
or <u>PSYS 333</u>	Cognitive Psychology	
<u>PSYS 350</u>	Social Psychology	3
or <u>PSYS 440</u>	Abnormal Psychology	
Select one of the following:		3
<u>PSYS 360</u>	Behavioral Neuroscience	
<u>PSYS 363</u>	Sensory and Perceptual Systems	
<u>PSYS 210</u>	Research Methods in Psychology	3
<u>PSYS 211</u>	Research Methods in Psychology Laboratory	1
<u>PSYS 313</u>	Statistics in Psychology	3
Select one of the following:		3
<u>PSYS 380</u>	Psychology and Science Fiction	
<u>PSYS 481</u>	History of Psychology	
<u>PSYS 490</u>	Independent Study in Psychological Sciences	

Concentration Courses

Select 12-24 hours of electives from PSYS courses not used to satisfy Core requirements	12-24
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Laboratory Experience

Select one of the following courses:	1-3
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<u>PSYS 322</u>	Laboratory in Developmental Psychology
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PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING

Course PSYS 332 LABORATORY
IN HUMAN AND ANIMAL
LEARNING Not Found

<u>PSYS 334</u>	Laboratory in Cognition
<u>PSYS 365</u>	Laboratory in Behavioral Neuroscience
<u>PSYS 413</u>	Psychological Measurement
<u>PSYS 415</u>	Programming for Social Sciences
Total Hours	38-52

Neuroscience Concentration

This interdisciplinary concentration emphasizes neuroscience and includes courses investigating the brain from the level of cellular biology to higher order psychological systems. This concentration requires more than 48 hours, so students do not need a minor or second major. Also, students in this concentration do not select another concentration within the Psychological Science Major.

Core Courses

<u>PSYS 100</u>	<u>Introduction to Psychology</u>	<u>3</u>
<u>or PSYS 160</u>	<u>Introduction to Biopsychology</u>	
<u>PSYS 210</u>	<u>Research Methods in Psychology</u>	<u>3</u>
<u>PSYS 211</u>	<u>Research Methods in Psychology Laboratory</u>	<u>1</u>
<u>PSYS 313</u>	<u>Statistics in Psychology</u>	<u>3</u>
<u>or BIOL 382</u>	<u>Introductory Biostatistics</u>	
<u>PSYS 220</u>	<u>Introduction to Lifespan Developmental Psychology</u>	<u>3</u>
<u>or PSYS 321</u>	<u>Child Developmental Psychology</u>	
<u>PSYS 350</u>	<u>Social Psychology</u>	<u>3</u>
<u>or PSYS 440</u>	<u>Abnormal Psychology</u>	
<u>PSYS 331</u>	<u>Principles of Human and Animal Learning</u>	<u>3</u>
<u>PSYS 360</u>	<u>Behavioral Neuroscience</u>	<u>3</u>
<u>Choose one - Integrative Science in Psychology (3 credits)</u>		<u>3</u>
<u>PSYS 380</u>	<u>Psychology and Science Fiction</u>	
<u>PSYS 481</u>	<u>History of Psychology</u>	
<u>PSYS 490</u>	<u>Independent Study in Psychological Sciences</u>	

Upper Level PSYS concentration requirements

<u>PSYS 333</u>	<u>Cognitive Psychology</u>	<u>3</u>
<u>PSYS 363</u>	<u>Sensory and Perceptual Systems</u>	<u>3</u>

<u>PSYS 465</u>	<u>Psychopharmacology</u>	<u>3</u>
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Additional PSYS electives

<u>PSYS 431</u>	<u>Psychology of Language</u>	
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<u>PSYS 444</u>	<u>Psychology of Substance Use Disorders</u>	
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<u>PSYS 462</u>	<u>Neuroscience of Learning and Memory</u>	
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<u>PSYS 463</u>	<u>Evolutionary Psychology</u>	
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<u>PSYS 482</u>	<u>Psychology of Sexuality</u>	
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<u>PSYS 490</u>	<u>Independent Study in Psychological Sciences</u>	
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<u>PSYS 499</u>	<u>Senior Seminar in Psychology</u>	
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Lab experiences (two labs: 2-4 credits)

<u>PSYS 161</u>	<u>Introduction to Biopsychology Laboratory</u>	<u>2-4</u>
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<u>PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING</u>	<u>Course PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING Not Found</u>	
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<u>PSYS 334</u>	<u>Laboratory in Cognition</u>	
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<u>PSYS 365</u>	<u>Laboratory in Behavioral Neuroscience</u>	
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<u>PSYS 415</u>	<u>Programming for Social Sciences</u>	
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Lower level Biology core

<u>BIOL 120</u>	<u>Biological Concepts: Cells Metabolism and Genetics</u>	<u>3</u>
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<u>BIOL 121</u>	<u>Biological Concepts: Cells, Metabolism, and Genetics Lab</u>	<u>1</u>
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<u>BIOL 122</u>	<u>Biological Concepts: Evolution, Diversity, and Ecology</u>	<u>3</u>
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<u>BIOL 123</u>	<u>Biological Concepts: Evolution, Diversity, and Ecology Lab</u>	<u>1</u>
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Upper level BIOL concentration requirements

<u>BIOL 335</u>	<u>Neurobiology</u>	<u>3</u>
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<u>BIOL 312</u>	<u>Bioinformatics</u>
<u>BIOL 316</u>	<u>Evolution: Theory and Process</u>
<u>BIOL 319</u>	<u>Introduction to Molecular and Cell Biology</u>
<u>BIOL 322</u>	<u>Introduction to Molecular and Cell Biology Laboratory</u>
<u>BIOL 327</u>	<u>Genetics</u>
<u>BIOL 337</u>	<u>Genetics Laboratory</u>
<u>BIOL 334</u>	<u>Animal Behavior</u>
<u>BIOL 411</u>	<u>Cell Biology</u>
<u>BIOL 464</u>	<u>Endocrinology</u>
<u>BIOL 495</u>	<u>Molecular Genetics</u>
Total Hours	56-58

Quantitative Psychology Concentration

This concentration focuses on the use of advanced data manipulation and statistical analysis techniques within psychological science to examine discipline-specific research questions. This concentration requires at least 49 hours, so students do not need a minor or second major. Also, students in this concentration do not select another concentration within the Psychological Science Major.

Core Courses

<u>PSYS 100</u>	Introduction to Psychology	3
or <u>PSYS 160</u>	Introduction to Biopsychology	
<u>PSYS 220</u>	Introduction to Lifespan Developmental Psychology	3
or <u>PSYS 321</u>	Child Developmental Psychology	
<u>PSYS 331</u>	Principles of Human and Animal Learning	3
or <u>PSYS 333</u>	Cognitive Psychology	
<u>PSYS 350</u>	Social Psychology	3
or <u>PSYS 440</u>	Abnormal Psychology	
Select one of the following:		3
<u>PSYS 360</u>	Behavioral Neuroscience	
<u>PSYS 363</u>	Sensory and Perceptual Systems	
<u>PSYS 210</u>	Research Methods in Psychology	3

<u>PSYS 211</u>	Research Methods in Psychology Laboratory	1
<u>PSYS 313</u>	Statistics in Psychology	3
Select one of the following:		3
<u>PSYS 380</u>	Psychology and Science Fiction	
<u>PSYS 481</u>	History of Psychology	
<u>PSYS 490</u>	Independent Study in Psychological Sciences	
Concentration Courses		
Select one of the following:		3-4
<u>CS 146</u>	Introduction to Programming	
<u>CS 170</u>	Problem Solving and Programming	
<u>CS 180</u>	Computer Science I	
<u>STAT 301</u>	Introductory Probability and Applied Statistics	3
<u>STAT 330</u>	Introduction to Statistical Software	3
<u>STAT 401</u>	Regression Analysis	3
or <u>STAT 402</u>	Experimental Design	
<u>PSYS 413</u>	Psychological Measurement	3
Select 9 PSYS upper-level elective hours selected in consultation with an advisor		9
Laboratory Experience		1-3
<u>PSYS 322</u>	<u>Laboratory in Developmental Psychology</u>	
<u>PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING</u>	<u>Course PSYS 332 LABORATORY IN HUMAN AND ANIMAL LEARNING Not Found</u>	
<u>PSYS 334</u>	<u>Laboratory in Cognition</u>	
<u>PSYS 365</u>	<u>Laboratory in Behavioral Neuroscience</u>	
<u>PSYS 413</u>	Psychological Measurement	
<u>PSYS 415</u>	<u>Programming for Social Sciences</u>	
Total Hours		50-53

Also, students in this concentration do not select another concentration within the Psychological Science Major.

4-Year Plan

Psychological Science, General

First Year

Fall	Hours	Spring	Hours
PSYS 100	3	PSYS Foundation Course	3
MATH 183	3	PSYS 160	3
ENG 100	3	PSYS 210	3
COMM 145	3	PSYS 211	1
Elective or Minor Course	3	Colonnade	3
		Elective or Minor Course	3
	15		16

Second Year

Fall	Hours	Spring	Hours
PSYS 313	3	PSYS Foundation Course	3
ENG 200	3	PSYS Foundation Course	3
Colonnade or Elective Course	3	Minor Course	3
Minor Course	3	Colonnade or Elective Course	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
	15		15

Third Year

Fall	Hours	Spring	Hours
PSYS Concentration Course	3	PSYS Concentration Course	3
PSYS Foundation Course/Lab Course	3-4	ENG 300	3
Minor Course	3	Minor Course	3
Minor Course	3	Minor Course	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
	15-16		15

Fourth Year

Fall	Hours	Spring	Hours
PSYS Concentration Course	3	PSYS Concentration Course	3
PSYS Integrative Science Course	3	Minor or Elective Course	3
Minor or Elective Course	3	Minor or Elective Course	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
	15		15

Total Hours 121-122

Psychological Science, Extended

First Year

Fall	Hours	Spring	Hours
MATH 183	3	PSYS Foundation Course	3
PSYS 100	3	PSYS 160	3
ENG 100	3	PSYS 210	3
COMM 145	3	PSYS 211	1
Elective or Colonnade Course	3	Colonnade	3
		Elective or Colonnade Course	3

First Year			
Fall	Hours	Spring	Hours
	15		16
Second Year			
Fall	Hours	Spring	Hours
PSYS 313	3	PSYS Foundation Course	3
ENG 200	3	PSYS Foundation or Concentration Course	3
PSYS Foundation Course	3	Minor Course	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
	15		15
Third Year			
Fall	Hours	Spring	Hours
PSYS Concentration Course	3	PSYS Concentration Course	3
PSYS Foundation Course/Lab Course	3-4	PSYS Concentration Course	3
Colonnade or Elective Course	3	ENG 300	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
	15-16		15
Fourth Year			
Fall	Hours	Spring	Hours
PSYS Concentration Course	3	PSYS Concentration Course	3
PSYS Concentration Course	3	PSYS Concentration Course	3
PSYS Integrative Science Course	3	Colonnade or Elective Course	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
Colonnade or Elective Course	3	Colonnade or Elective Course	3
	15		15

Total Hours 121-122

Will this program be managed or owned by more than one department?

No

Does this program include courses from outside your department?

Yes

Outside Courses

Details

Who approved including these courses?	When were they approved?
Psychology	Prior to 2020-2021 catalog year
Computer Science/SEAS	Prior to 2020-2021 catalog year
Mathematics	Prior to 2020-2021 catalog year
Biology	Fall 2022

Please insert one Learning Outcome per box. Click green plus sign for additional LO boxes

Learning Outcomes
and Measurement
Plan

	List all student learning outcomes of the program.	Measurement Plan
SLO 1	Develop a working knowledge of psychology's content domains	Assess student learning within each foundational category (Developmental Processes, Learning and Cognition, Individual Differences and Social Processes, and Biological Bases of Behavior and Mental Processes) of the major's content core. Student performance on 3-4 items for each of 3-4 learning outcomes (i.e., 9-16 items) for each of the following courses: 220, 321, 331, 333, 350, 360, 363, and 440
SLO 2	Interpret, design, and conduct basic psychological research	Assess student learning within research methods and statistics courses. Student performance on 3-4 items for each of 3-4 learning outcomes (i.e., 9-16 items) for each of the following courses: 210/211, 313
SLO 3	Apply ethical standards to evaluate psychological science and practice	Document student training in the appropriate conduct of research with human subjects, including the completion of CITI training in research methods course
SLO 4	Applies learning outcomes of the methods and statistics courses in the lab (for students completing independent study)	Assess the diversity of activities of Psychological Sciences majors who complete Independent Study (e.g., PSYS 490)
SLO 5	Integrate knowledge gained in complementary disciplines of psychology (for students in 747E only)	Students complete open-ended instrument in which they are asked to describe at least two ways that theories or research findings in one discipline/core of psychology impacts or interacts with another (e.g., concentration). Scored with rubric across four levels (unsatisfactory to exceptional)

Delivery Mode

Is 25% or more of this program offered at a location other than main campus?

Yes

Enter Location(s)
and Percentage of
Program Offered at

Location(s)	
Location	Percentage
Elizabethtown	40
Glasgow	60
Owensboro	40

Is 50% or more of this program offered by distance education (online asynchronous, online synchronous, connected classrooms, etc.)?

No

Do you plan to offer 100% of this program online?

No

If no, enter the percentage of the program that will be taught online.

0

Do you plan to offer 100% of this program face-to-face?

Yes

Do you plan to offer at least 25% of this program as a direct assessment competency-based educational program?

No

See the SACSCOC Policy on Direct Assessment Competency-based Educational Programs.
<https://www.sacscoc.org/pdf/081705/DirectAssessmentCompetencyBased.pdf>

Library Resources

Attach library resources

Rationale for the program proposal?

The proposed changes to the program include:

- (1) Adding PSYS 453 Psychology of Women to the Developmental Science concentration - The course content includes development, sexuality, and gender roles in the family that evolve from adolescence through adulthood. The course provides students in the developmental science concentration an opportunity to consider developmental research questions associated with womanhood and evolving roles across one's lifetime.
- (2) PSYS 332 Laboratory in Human and Animal Learning was recently approved. We are adding this course to all of the existing concentrations as a possible course for students to take to meet the major's laboratory requirement. The Department of Psychological Sciences has 6 lab courses, including PSYS 322, PSYS 332, PSYS 334, PSYS 365, PSYS 413, and PSYS 415. In addition to adding PSYS 332 to each of the existing concentrations as a possible lab for students to take, each of the other lab courses are also being added to each concentration as a possible lab course for students to take. The goal is to standardize the presentation of the lab courses in the program so that students realize they can complete any of our lab courses to meet the lab requirement for the major's existing concentrations (Applied Psychological Science, Biobehavioral Psychology, Clinical Psychological Science, Cognitive Psychology, Developmental Science, Social Psychology, Quantitative Psychology, and General Concentration). When students declare the Psychological Science major and choose any of these existing concentrations, they are currently only required to complete one of the aforementioned lab courses. Note that students who declare two concentrations from the existing options only have to complete one of these aforementioned lab courses in total. Students who opt for the neuroscience concentration will complete two lab experiences in Psychological Sciences.
- (3) Over the past 5 years, WKU has had 30-40 students minor in Neuroscience per year. Public universities in Kentucky with a major in neuroscience include the University of Kentucky, the University of Louisville, Morehead State University, and Northern Kentucky University. Currently, the University of Kentucky has around 400 students majoring in neuroscience; Louisville has around 200. Over the past 3 years, Morehead State University and Northern Kentucky University have had around 25-35 majors enrolled each year in their neuroscience programs. Overall, we have more students in our minor here at WKU than generally major in neuroscience at each of these two regional universities. When recruiting students to the university, recruiting officials report that prospective students express an interest in a neuroscience major and are disappointed to learn that we do not have a neuroscience major. Given the popularity of the neuroscience minor, we are proposing adding a concentration to the Psychological Science major that would allow students to choose a neuroscience program linked directly to a major during the application process. A recent survey of 191 of current WKU students mainly in lower level Psychological Science, Biology, and Chemistry courses demonstrated that 56.5% of those queried would consider majoring in neuroscience, with 38.3% reporting a high likelihood of choosing neuroscience as a major if it were available. The vast majority of these students reported that their future education and career goals included going on to graduate school (25%) or medical school (30.6%). The proposed concentration utilizes courses already offered by the Departments of Psychological Sciences and Biology, and includes curriculum comparable to neuroscience programs at Kentucky regional universities. If the concentration is popular, a new program will be developed at WKU that will include additional courses and academic units. At this time, the commitment of new faculty lines to this endeavor is limited, so, by creating a neuroscience concentration within the Psychological Science major, we hope to build out the department's research capacity to support students in this domain given

hope to build out the department's research capacity to support students in the domain given interest in the concentration. The proposed concentration, if popular, could grow enrollment for the courses specified within the proposal. Those required upper level courses may see the need for additional sections to be offered, necessitating additional faculty effort as approved by the Office of the Dean of College of Science and Engineering. Our hope is that the proposed concentration will attract more first time, first year students to WKU to study neuroscience. A sample 4-year plan for students completing this concentration is included as an attached document.

Note that the Department of Psychological Sciences reached out to the chairs of the Biology Department and the Psychology Department on 10/12/2022 about the proposed revisions.

Additional [psychological sciences neuroscience 747.docx](#)
Attachments

Additional information or attachments

Note that PSYS 365 was approved by UCC on 11/16/21 and the University Senate on 12/9/2021

Note that PSYS 415 was approved by the OCSE curriculum committee on 12/2/2021

Reviewer Comments