

Mathematics and Psychology, BS

In the mathematics and psychology combined-major BS program, psychology and mathematics courses help lay the groundwork for strong basic training that seeks to prepare the student toward developing psychological models using mathematics.

Program Requirements

Mathematics Requirements

Code	Title	Hours
Problem Solving		
MATH 1365	Introduction to Mathematical Reasoning	4
Calculus		
MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4
MATH 2321	Calculus 3 for Science and Engineering	4
Intermediate and Advanced Mathematics		
MATH 2341	Differential Equations and Linear Algebra for Engineering	4
MATH 2331	Linear Algebra	4
MATH 3081	Probability and Statistics	4
Math Electives		
Complete two courses in the following range that are not required in the requirements above:		8
MATH 3001 to MATH 5999		

Psychology Requirements

Code	Title	Hours
Introductory Course		
PSYC 1101	Foundations of Psychology	4
Statistics		
Complete the following course. Students who receive transfer credit for the Advanced Placement Statistics exam may complete the 1 SH PSYC 2315 course (requires department permission).		4-5
PSYC 2320	Statistics in Psychological Research	
Area A (Personality/Social Basis of Behavior)		
Complete two of the following:		8
PSYC 3400	Personality	
PSYC 3402	Social Psychology	
PSYC 3404	Developmental Psychology	
PSYC 3406	Clinical Psychology and Mental Health	
Area B (Biological/Cognitive Basis of Behavior)		
Complete two of the following:		8
PSYC 3450	Learning and Motivation	
PSYC 3452	Sensation and Perception	
PSYC 3458	Biological Psychology	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
Psychology Laboratory		
Complete one of the following:		4
PSYC 4600	Laboratory in Research Design	
PSYC 4606	Laboratory in Biological Psychology	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4614	Laboratory in Social Psychology	
PSYC 4616	Laboratory in Personality	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4624	Laboratory in Affective Science	

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PSYC 4626 Laboratory in Life-Span Emotional Development

PSYC 4628 Laboratory in Developmental Psychology

Psychology Capstone Requirement

Complete one of the following: 4

PSYC 4656 Seminar in Biological Psychology

PSYC 4658 Seminar in Psycholinguistics

PSYC 4660 Seminar in Cognition

PSYC 4662 Seminar in Personality

PSYC 4664 Seminar in Social Psychology

PSYC 4666 Seminar in Clinical Psychology

PSYC 4668 Seminar in Sensation and Perception

PSYC 4674 Seminar in Cognitive Neuroscience

PSYC 4676 Seminar in Developmental Psychology

Psychology Elective

Any PSYC course in the 3000 range and up 4

Integrative Requirement

Code	Title	Hours
PSYC 4540	Quantitative Topics in Psychology and Behavioral Neuroscience	4

Mathematics and Psychology Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Plan of Study

Sample Plan of Study

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 1111	4	MATH 1341	4	Vacation		Vacation	
MATH 1365	4	PSYC Area A	4				
PSYC 1101	4	NUpath IC	4				
MATH 1000 or PSYC 1000	1	Open elective	4				
NUpath EI	4						
		17	16		0		0
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 1342	4	EESC 2000	1	Vacation		Co-op	
PSYC 2320	4	MATH 2321	4				
PSYC Area B	4	PSYC Area A	4				
NUpath DD	4	MATH elective	4				
		Open elective	4				
		16	17		0		0
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		MATH 2331	4	MATH 2341	4	Co-op	4
		PSYC Area B	4	Adv writing	4		
		PSYC elective	4				
		Open elective	4				
		0	16		8		0
Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		MATH 3081	4	Open elective	4	Co-op	4

		PSYC 4540	4	Open elective	4		
		PSYC lab	4				
		NUpath ER	4				
	0		16		8		0
Year 5							
Fall	Hours	Spring		Hours			
Co-op		PSYC seminar	4				
		MATH elective	4				
		Open elective	4				
		Open elective	4				
	0		16				

Total Hours: 130