

Psychological Science, B.S.

Department Contact:

Chairperson: Dr. Marnie Moist, mmoist@francis.edu

Program Description:

The Psychology program at Saint Francis University is grounded in the Goals of Franciscan Higher Education and the learning goals identified by the American Psychological Association. This program is designed to introduce students to natural and social scientific investigations of behavior and mental processes preparing students for their futures as responsible global citizens. The psychology curriculum engages students in research and scholarly activities, while also encouraging them to apply coursework in internships, study abroad opportunities, and/or community service. Graduates of the psychology program are prepared for entry-level employment in the community and social service field and for advanced study in graduate or professional schools.

The Psychology department offers a Bachelor of Science degree, with various concentrations to align with the student's interest. Those students who wish to pursue a psychology degree without a concentration can choose the B.S. in Psychological Science, which requires the student to choose a minor or a second major unless they are undertaking a concentration.

Students who plan to seek admission to a graduate program in Psychology are **STRONGLY** urged to complete a research project that is suitable for presentation or publication.

Student Learning Outcomes:

Upon successful completion of the program, students will be able to:

- Demonstrate fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings to discuss how psychological principles apply to behavioral problems.
- Demonstrate the skills involved in the development of scientific reasoning and problem solving, including effective research methods.
- Articulate and demonstrate the ethically and socially responsible behaviors for professional and personal settings in a landscape that involves increasing diversity.
- Demonstrate competence in writing and in oral and interpersonal communication skills.
- Demonstrate application of psychology-specific content and skills, effective self-reflection, project-management skills, teamwork skills, and career preparation.

Estimated Completion Time:

Typically, 4 years of full-time study.

Capstone Requirement:

The Senior capstone requirement is completed 3-credits by taking PSYC 398/399 (Internship) or PSYC 407 or PSYC 487 (Independent study).

Total University Credits Required: 128 credits minimum.

General Education	48 credits
Psychology major	33 credits
Minor requirement	15-18 credits
Free electives	29-32 credits

Course requirement for the Major: 33 credits

Psychology Major Core Requirements (12 credits):

- PSYC 101 – Introduction to Psychology
- PSYC 303 – Learning
- PSYC 311 – Research Methods and Statistics I*
- PSYC 312 – Research Methods and Statistics II*

Two of the following lower-level courses (6 credits):

- PSYC 204 - Personality
- PSYC 205 – Psychopathology
- PSYC 206 – Health & Exercise Psychology
- PSYC 209 – Developmental Psychology

Two of the following upper-level courses (6 credits):

- PSYC 304 – Social Psychology
- PSYC 317 – Memory & Cognition
- PSYC 321 – Sport Psychology
- PSYC 406 – Clinical & Counseling Psychology
- PSYC 420 – Canine Learning and Behavior

One of the following diversity courses (3 credits):

- PSYC 322 – Psychology of Women and Gender
- PSYC 323 – Cultural Psychology

One of the following Brain and Behavior courses (3 credits):

- PSYC 302 – Sensation and Perception
- PSYC 314 – Biopsychology
- PSYC 404 - Psychopharmacology

Psychology Capstone (One of the following courses; 3 credits) **:

- PSYC 398/399 – Internship (2-15 credits)¹
- PSYC 407 – Psychology CORE: Applied Topics in Psychology
- PSYC 487 – Independent Study (1-8 credits)²

Students must choose a minor, a concentration or a second major.

*Students may make the following substitutions for the required research methods sequence:

- STAT 101 or 205 and PSYC 310
- STAT 101 or 205 and PSYC 311

**Students must complete a 3-credit internship or a 3-credit independent study or PSYC 407 to completely satisfy the degree requirements and EXAM 401.

¹ While students may take PSYC 398/399 for variable credits (2-15), only 3 credits may count towards the psychology credit requirement.

² While students may take PSYC 487 for variable credits (1-8), only 3 credits may count towards the psychology credit requirement.

**Bachelor of
Science,
Psychology:
2022-2023**

Catalog Science, Psychological Science

Course No.	Description	Cr.	Course No.	Description	Cr.
First Year			First Year		
Fall			Spring		
<input type="checkbox"/> LANG 102+	Language elective	3	<input type="checkbox"/> PSYC	PSYC 204, 205, 206, 209*	3
<input type="checkbox"/> PSYC 101	Introduction to Psychology	3	<input type="checkbox"/> MATH	Math elective 101, 105, or higher	3
<input type="checkbox"/> HIST xxx	History Elective 100-200 level	3	<input type="checkbox"/> SOC SCI	Social Science Elective I	3
<input type="checkbox"/> WRIT 102	Research Writing	3	<input type="checkbox"/> FTAE 105	Franciscan Goals for Today	3
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0	<input type="checkbox"/> CORE 113	Gen Ed 1 st Year Seminar	3
	Science elective with lab	3-4	<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
Total Credits		15-16	Total Credits		15
Second Year			Second Year		
Fall			Spring		
<input type="checkbox"/> PSYC	PSYC 204, 205, 206, or 209*	3	<input type="checkbox"/> Fine Arts	FNAR, ART, MUS, THTR minor/concentra/dbl major course**	3
<input type="checkbox"/> PHIL 205	Discovering Philosophy	3	<input type="checkbox"/>		3
<input type="checkbox"/> LIT 104, 201, 202, 204, 207, 270 Literature		3	FTAE/PHIL	FTAE/PHIL elective	3
<input type="checkbox"/>	minor/concentra/dbl major course**	3	<input type="checkbox"/>	free elective	3
<input type="checkbox"/>	free elective	3	<input type="checkbox"/>	free elective	3
	free elective		<input type="checkbox"/>	free elective	3
<input type="checkbox"/>		3	Total Credits		18
Total Credits		18	Total Credits		18
Third Year			Third Year		
Fall			Spring		
<input type="checkbox"/>	MATH, STAT, CPSC, ENGR or any natural science	3	<input type="checkbox"/> PSYC	PSYC 302, 314, or 404*	3
<input type="checkbox"/> PSYC 311	Research Methods and Statistics I	3	<input type="checkbox"/> PSYC 312	Research Methods and Statistics II	3
<input type="checkbox"/>	free elective	3	<input type="checkbox"/> PSYC	PSYC 304, 317, 321, 406, 420*	3
<input type="checkbox"/>	minor/concentra/dbl major course**	3	<input type="checkbox"/> PSYC 303	Learning	3
<input type="checkbox"/> SOC SCI	Social Science Elective II	3	<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/> EXAM 301	Writing Competency	0	Total Credits		15
Total Credits		15	Total Credits		15

Psychological Sciences, BS, Pre-Med Paradigm

<i>Course No.</i>	<i>Description</i>	<i>Cr.</i>	<i>Course No.</i>	<i>Description</i>	<i>Cr.</i>
First Year			First Year		
Fall			Spring		
<input type="checkbox"/> PSYC 101	Intro to Psychology	3	PSYC	PSYC 204, 205, 206, or 209*	3
<input type="checkbox"/> BIOL 110	Intro: Evol/Ecol/Pl.Bio	4	<input type="checkbox"/> BIOL 111	Molec/Cell/Anim.Phys.	4
<input type="checkbox"/> Chem 121	Chemistry Principles I	4	<input type="checkbox"/> Chem 122	Chemistry Principles II	4
<input type="checkbox"/> FTAE 105	Franciscan Goals for Today	3	Lit 104		3
<input type="checkbox"/> WRIT 102	Research Writing	3	<input type="checkbox"/> CORE 113	Gen Ed 1 st Year Seminar	3
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0	<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
Total Credits		17	Total Credits		17
Second Year			Second Year		
Fall			Spring		
PSYC	PSYC 204, 205, 206, or 209*	3	<input type="checkbox"/> PSYC 303	Learning	3
Math 121	Calculus/Geom I or Calculus	3	Math 122	Calculus/Geom I or Calculus	3
<input type="checkbox"/> CHEM 221	Organic Chemistry I	4	<input type="checkbox"/> CHEM 222	Organic Chemistry II	4
Hist xxx	Hist elective	3	Biol 200 & above	Elective**	4
Biol 200 & above	Elective**	4	<input type="checkbox"/> PHIL 205	Discovering Philosophy	3
Total Credits		17	Total Credits		17
Third Year			Third Year		
Fall			Spring		
<input type="checkbox"/> PSYC 311	Research Methods and Statistics I	3	<input type="checkbox"/> PSYC 312	Research Methods and Statistics II	3
PSYC	PSYC 304, 317, 321, 406, 420*	3	PSYC	PSYC 314, 302, 404*	3
<input type="checkbox"/> PHYS 104 or 121	Intro to Physics I or Gen. Physics I	4	Free elective		3
<input type="checkbox"/> BIOL 405	Biochemistry I	4	<input type="checkbox"/> PHYS 105 or 122	Intro to Physics II or Gen. Physics II	4
PMED 331	Premed seminar	0	Biol 200 & above	Elective**	4
FTAE/PHIL	FTAE/PHIL Elective	3			
<input type="checkbox"/> EXAM 301	Writing Competency	0			
Total Credits		17	Total Credits		17

Fourth Year	Fall	
PSYC	PSYC 304, 317, 321, 406, 420*	3
<input type="checkbox"/> Fine Arts	FNAR, ART, MUS, THTR	3
<input type="checkbox"/> PSYC	Psychology capstone; 398/399, 407 or 487***	3
<input type="checkbox"/> LANG xxx	Foreign Lan. (102 or higher)	3
CORE	CORE 407***	3
Total Credits		15

Fourth Year	Spring	
<input type="checkbox"/> SOC SCI	Social Science Elective II	3
<input type="checkbox"/> PSYC	PSYC 322 or PSYC 323	3
Free elective		3
Free elective		1
Free elective		1
<input type="checkbox"/> EXAM 401	Dept. Comp. Exam	0
Total Credits		11

Total Required

Credits: 128

*interchangeable as depends on semester offered

**All Biol 200 & above are strongly recommended

to be taken as 4 credits; however 3-credit options

can be discussed with advisor

***Psychology capstone must be completed for 3 credits but more credits possible to make 128 credits; PSYC 407 only serves as CORE 407; all capstone options serve as Exam 401;

PSYC 487 strongly recommended for med school
Has a bio minor, can easily add a neuro minor

Bachelor of Science, Biology: Neuroscience Concentration, 2022-2023 Catalog

Bachelor of Science, Psychology: Neuroscience concentration, 2022-2023 Catalog

Important note: this degree requires students to complete degrees in both Psychology and Biology, both with a neuroscience concentration. Students & advisors should consult the University Catalog for the requirements of each program.

Course No.	Description	Cr.	Course No.	Description	Cr.
First Year			First Year		
Fall			Spring		
<input type="checkbox"/> PSYC 101	Intro to Psychology (sociology)	3	<input type="checkbox"/> BIOL 111	Molec/Cell/Anim.Phys.	4
<input type="checkbox"/> BIOL 110	Intro: Evol/Ecol/Pl.Bio	4	<input type="checkbox"/> Chem 122	Chemistry Principles II	4
<input type="checkbox"/> Chem 121	Chemistry Principles I	4	<input type="checkbox"/> MATH 112	Calculus	3
<input type="checkbox"/> FTAE 105	Franciscan Goals for Today	3	or 121	or Calculus/Geom I	
<input type="checkbox"/> WRIT 102	Research Writing	3	<input type="checkbox"/> PSYC	PSYC 204, 205, 206, or 209	3
<input type="checkbox"/> BIOL 131	Biology First Year Seminar	0	<input type="checkbox"/> CORE 113	Gen Ed 1 st Year Seminar	3
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0	<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
Total Credits		17	Total Credits		17
Second Year			Second Year		
Fall			Spring		
<input type="checkbox"/> BIOL 406	Vertebrate Physiology	4	<input type="checkbox"/> BIOL 211	Comparative Anatomy	4
<input type="checkbox"/> PSYC	PSYC 204, 205, 206, or 209	3	<input type="checkbox"/> PSYC	PSYC 322 or 323 (diversity)	3
<input type="checkbox"/> CHEM 221	Organic Chemistry I	4	<input type="checkbox"/> CHEM 222	Organic Chemistry II	4
<input type="checkbox"/> PHIL 205	Discovering Philosophy	3	<input type="checkbox"/> PSYC 303	Learning	3
<input type="checkbox"/> LIT 104, 201, 202, 204, 207, 270	Literature	3	<input type="checkbox"/> BIOL 231	Biology Sophomore Seminar	0
Total Credits		17	Total Credits		14

Third Year	Fall	
<input type="checkbox"/>	PSYC 311	Research Meth. & Statistics I 3
<input type="checkbox"/>	BIOL 405	Biochemistry I 4
<input type="checkbox"/>	PHYS 104 or 121	Intro to Physics I or Gen. Physics I 4
<input type="checkbox"/>	SOC SCI	Social Science Elective II 3
<input type="checkbox"/>	Fine Arts	FNAR, ART, MUS, THTR 3
<input type="checkbox"/>	BIOL 331	Biology Junior Seminar 0
<input type="checkbox"/>	EXAM 301	Writing Competency 0

Total Credits 17

Third Year	Spring	
<input type="checkbox"/>	PSYC 312	Research Meth. & Statistics II 3
<input type="checkbox"/>	BIOL 301	Genetics 4
<input type="checkbox"/>	PHYS 105 or 122	Intro to Physics II or Gen. Physics II 4
<input type="checkbox"/>	PSYC 314	Biopsychology 3
<input type="checkbox"/>	NEUR 279	Introduction to Neuroscience 3

Total Credits 17

Fourth Year	Fall	
<input type="checkbox"/>	BIOL xxx	Neurobiology Elective(s) 4
<input type="checkbox"/>	PSYC	PSYC 302 or 404 3
<input type="checkbox"/>	PSYC	Psychology capstone; 398/399, 407 or 487 3
<input type="checkbox"/>	LANG xxx	Foreign Lan. (102 or higher) 3
<input type="checkbox"/>	PHIL/FTAE xxx	300+ PHIL/FTAE Elective 3

Total Credits 16

Total Credits: 130

Fourth Year	Spring	
<input type="checkbox"/>	HIST xxx	History Elective 100-200 level 3
<input type="checkbox"/>	PSYC 317	Memory and Cognition 3
<input type="checkbox"/>	BIOL 402	Evolution 3
<input type="checkbox"/>	BIOL 431	Senior Seminar 1
<input type="checkbox"/>	NEUR 450	Neuroscience Seminar 1
<input type="checkbox"/>	BIOL 401	Cell & Molecular Biol 4
<input type="checkbox"/>	EXAM 401	Dept. Comp. Exam 0

Total Credits 15

***Sequence of courses may be altered with consent of advisor.

Neurobiology Elective Courses

F = Fall; S = Spring; Su = Summer; AN = As Needed

4 credits of the following:

BIOL 208 Animal Behavior (F; 4 cr)

BIOL 212 Developmental Biology (AN; 4 cr)

BIOL 305 Immunology (F; 3 cr)

BIOL 430 Advanced Lab Methods (AN; 2 cr)

BIOL 194/294/394/494 Biological Research

Notes:

Suggestions:

Consider undergraduate research

Job Shadow during summer

If pursuing graduate school, prepare for graduate school entrance exams during summer after junior year.

Bachelor of Science, Psychology: 4+3 with open minor leading to DPT: 2022-2023 Catalog

Course No.	Description	Cr.	Course No.	Description	Cr.
First Year Fall			First Year Spring		
<input type="checkbox"/> LANG 102+	Language elective	3	<input type="checkbox"/> PSYC	PSYC 204, 205, 206, 209	3
<input type="checkbox"/> PSYC 101	Introduction to Psychology	3	<input type="checkbox"/> MATH 110	Pre-Calculus or higher	3
<input type="checkbox"/> HIST xxx	History Elective 100-200 level	3	<input type="checkbox"/> FTAE 105	Franciscan Goals for Today	3
<input type="checkbox"/> WRIT 102	Research Writing	3	<input type="checkbox"/> CORE 113	Gen Ed 1 st Year Seminar	3
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0	<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
CHEM 113	Human Chemistry I with lab	4	CHEM 114	Human Chemistry II with lab	4
Total Credits		16	Total Credits		16
Second Year Fall			Second Year Spring		
<input type="checkbox"/> PSYC	PSYC 204, 205, 206, or 209	3	<input type="checkbox"/> Fine Arts	FNAR, ART, MUS, THTR	3
<input type="checkbox"/> PHIL 205	Discovering Philosophy	3	<input type="checkbox"/> EXPH 305	Exercise Physiology with lab	4
<input type="checkbox"/> LIT 104, 201, 202, 204, 207, 270	Literature	3	<input type="checkbox"/> BIOL 206	Anatomy and Physiology II with lab	4
<input type="checkbox"/> BIOL 205	Anatomy and Physiology I with lab	4	<input type="checkbox"/> PHYS 105	Physics II with lab	4
<input type="checkbox"/> PHYS 104	Physics I with lab	4	<input type="checkbox"/> SOC SCI	Social Science Elective I	3
Total Credits		17	Total Credits		18

Third Year Fall

<input type="checkbox"/>	MATH, STAT, CPSC, ENGR or any natural science	4
<input type="checkbox"/>	PSYC 311 Research Methods and Statistics I	3
<input type="checkbox"/>	free elective	3
<input type="checkbox"/>	minor course	3
<input type="checkbox"/>	SOC SCI Social Science Elective II	3
<input type="checkbox"/>	EXAM 301 Writing Competency	0
PT 101	Physical Therapy Seminar I	1
Total Credits		17

Third Year Spring

<input type="checkbox"/>	PSYC PSYC 322 or 323	3
<input type="checkbox"/>	PSYC 312 Research Methods and Statistics II	3
<input type="checkbox"/>	PSYC PSYC 304, 317, 406	3
<input type="checkbox"/>	PSYC 303 Learning	3
<input type="checkbox"/>	minor course	3
PT 102	Physical Therapy Seminar 2	1
Total Credits		16

Fourth Year Fall

<input type="checkbox"/>	PSYC PSYC 321, 406, or 420	3
<input type="checkbox"/>	Minor course	3
<input type="checkbox"/>	PSYC Psychology capstone	3
<input type="checkbox"/>	FTAE/PHIL FTAE/PHIL Elective	3
<input type="checkbox"/>	Free Elective	1
Total Credits		13

Fourth Year Spring

<input type="checkbox"/>	PSYC PSYC 302, 314, or 404	3
<input type="checkbox"/>	minor course	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	EXAM 401 Dept. Comp. Exam	0
Total Credits		15

Total Required

Credits: 128

***Sequence of courses may be altered with consent of advisor.

Animal-Assisted Health and Education Minor+Certificate /Certificate (Total = 18 cr.)

Important note: students can enroll into the minor and will receive an automatic certificate upon completion, or opt to complete the program as a certificate only neuroscience concentration. Students & advisors should consult the University Catalog for the requirements of each program.

Course No. First Year	Description Fall	Cr.	Course No. First Year	Description Spring	Cr.	Course No. First Year	Description Summer	Cr.
<input type="checkbox"/> PSYC 101	Intro to Psychology (soc sci i)	3	<input type="checkbox"/> AAHE 201	Introduction to AAHE	3	<input type="checkbox"/> AAHE 301	The Animal Partner	3
Total Credits		3	Total Credits		3	Total Credits		3
<input type="checkbox"/> AAHE 302	The Human Partner	3	<input type="checkbox"/> AAHE 401	Best Practices in AAHE	3			
Total Credits		3	Total Credits		3			
<input type="checkbox"/> AAHE 402	Scientific Assessment of AAHE+Capstone*	3						
Total = 3 cr.								

* May be relocated to the summer of the 2nd Year

Course requirements for the O.T./Psychology Double Major:

Psychology = 33 total credits

Total University Credits Required: 128 credits minimum.

Psychology Major Core Requirements (12 credits):

- PSYC 101 – Introduction to Psychology
- PSYC 303 – Learning
- PSYC 311 – Research Methods and Statistics I*
- PSYC 312 – Research Methods and Statistics II*

Two of the following lower-level courses (6 credits):

- PSYC 204 - Personality
- PSYC 205 – Psychopathology
- PSYC 206 – Health & Exercise Psychology
- PSYC 209 – Developmental Psychology

Two of the following upper-level courses (6 credits):

- PSYC 304 – Social Psychology
- PSYC 317 – Memory & Cognition
- PSYC 321 – Sport Psychology
- PSYC 406 – Clinical & Counseling Psychology
- PSYC 420 – Canine Learning and Behavior

One of the following Diversity courses (3 credits):

- PSYC 322 – Psychology of Women and Gender
- PSYC 323 – Cultural Psychology

One of the following Brain and Behavior courses (3 credits):

- PSYC 302 – Sensation and Perception
- PSYC 314 – Biopsychology
- PSYC 404 - Psychopharmacology

Psychology Capstone (One of the following courses; 3 credits) **:

- PSYC 398/399 – Internship (2-15 credits)³ or OT 403 Master's phase
- PSYC 407 – Psychology CORE: Applied Topics in Psychology
- PSYC 487 – Independent Study (1-8 credits)⁴

Students must choose a minor, a concentration or a **second major like Occupational Therapy**

Red font courses are already required for the Occupational Therapy (O.T.) major

Only 9 credits extra are required for O.T. majors to double major in Psychology!

- A 2nd 300/400-level psychology, a diversity course (PSYC 322 or 323), and PSYC 303 Learning

**Students must complete a 3-credit internship (OT 403 serves this purpose) or a 3-credit independent study or PSYC 407 to completely satisfy the degree requirements and EXAM 401.

³ While students may take PSYC 398/399 for variable credits (2-15), only 3 credits may count towards the psychology credit requirement. OT 403 automatically double-counts as the psychology capstone.

⁴ While students may take PSYC 487 for variable credits (1-8), only 3 credits may count towards the psychology credit requirement.