**Name** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **UIN** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Curriculum Planner: COGNITIVE PSYCHOLOGY CONCENTRATION – Fall 2019/Spring 2020 Updated 3/2019

UIUC/LAS General Education

Concentration Courses

Introductory/Foundation Core Courses

**Psychology [choose one]**

PSYC 100 – Intro to Psych (FA19/SP20)

PSYC 103 – Intro Experimental Psych (FA19)

**Statistics [choose one]**

PSYC 235 – Intro to Statistics or equivalent

Equivalent Courses – STAT 100, 200, 212, 400; ECON 202, 203; EPSY 280, 480; SOC 280: ACE 261; CHLH 244; PS 230; UP 116; SOCW 225

These equivalent courses meet the statistics requirement but do not count toward PSYC hours

200-Level Foundation Courses

**Biological/Cognitive [choose one]**

PSYC 204 – Intro to Brain & Cognition (FA19)

PSYC 210 – Behavioral Neuroscience (FA19/SP20)

PSYC 220 – Images of Mind (SP20)

PSYC 230 – Perception (FA19/SP20)

**Clinical/Developmental/Organization/**

**Personality/Social [choose two]**

PSYC 201 – Intro to Social Psych (FA19/SP20)

PSYC 207 – Prejudice & Discrimination (SP20)

PSYC 216 – Child Psych (FA19/SP20)

PSYC 238 – Psychopath & Prob in Living (FA19/SP20)

PSYC 239 – Community Psych (FA19/SP20)

PSYC 245 – Industrial/Org Psych (FA19/SP20)

PSYC 250 – Psych of Personality (FA19/SP20)

**200-Level Core [choose one]**

PSYC 224 – Cognitive Psych (FA19/SP20)

PSYC 248 – Learning and Memory (FA19/SP20)

**Research Methods [choose one]**

PSYC 331 – Cognitive Psych Lab (SP20)

PSYC 334 – Perception Lab (FA19)

**Concentration Electives [choose four]**

BCOG 100 – Intro to Brain & Cog Sci (FA19)

BCOG 200 **–** Programming for Brain/Cog Sci (SP20)

BCOG 301 **–**  Intelligence & Brain (SP20)

(*formerly PSYC 396 – Intelligence and the Brain)*

BCOG/PSYC 458 – Cognitive Sci **(not offered FA19/SP20)**

PSYC 224 or 248 (if not used for 200-Level Core) (FA19/SP20)

PSYC 321 – Human Memory **(not offered FA19/SP20)**

PSYC 425 **–**  Psych of Language (FA19)

PSYC 427 **–**  Language & the Brain (SP20)

PSYC 450 – Cognitive Psychophysiology (FA19)

PSYC 468 – Psych & Law (FA19)

PSYC 489 – Neural Network Modeling Lab (SP20)

PSYC 496 – “VR Technology and Perception” (FA19)

PSYC 494 – Advanced Research\*

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*\*A maximum of three (3) hours of PSYC 494, Advanced Research, conducted in a Cognitive Psychology lab, may be used as an elective course*

Advanced (300/400) Hour Requirement

21 hours

PSYC 331 **–**  Cognitive Psych Lab 4 hrs

or PSYC 334 **–**  Perception Lab

Concentration Electives 12 hrs

Additional 300/400 courses > 5 hrs

(any subject, including PSYC)

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21 hrs

**Composition I**

**Advanced Composition**

**Quantitative Reasoning** (2 courses)

1. PSYC statistics or equivalent (3 hrs)

**Western/Comparative Culture(s)** (1 course)

**Non-Western Culture(s)** (1 course)

**US Minority Cultures** (1 course)

**Humanities and the Arts** (6 hours)

1.

2.

**Social and Behavioral Sciences** (6 hours)

1. Introductory Psychology (4 hrs)

2.

**Natural Sciences and Technology** (6 hours)

1.

2.

**Cognitive Psychology Concentration**

***Study of basic behavioral and cognitive processes, including learning,***

***memory, problem-solving, motivation, and language***

Requires 32 hours of "PSYC" coursework plus an approved statistics course.

Minimum thirteen (13) hours of PSYC 300/400-level credit required (includes lab/research methods course).

Introductory Courses

|  |  |
| --- | --- |
| **Psychology – choose one**  **PSYC 100 – Intro to Psych**  **PSYC 103 – Intro Experimental Psych** | **Statistics**  **PSYC 235 – Intro to Statistics or equivalent\***  Equivalent Courses – STAT 100, 200, 212, 400; ECON 202, 203; EPSY 280, 480; SOC 280: ACE 261; CHLH 244; PS 230; UP 116; SOCW 225  (Equivalent courses meet the statistics requirement but do not count toward PSYC hours) |

200-Level Foundation Courses

|  |  |
| --- | --- |
| **Biological/Cognitive – choose one**  **PSYC 204 – Intro to Brain and Cognition –** Introduction to cognitive neuroscience, which is concerned with how the cognitive systems support a broad range of capacities including memory, attention, and social and emotional processing, arise from the functioning of specific brain modules/mechanisms.  **PSYC 210 – Behavioral Neuroscience –** Survey of current  knowledge and speculation regarding the brain's role in perception, motivation,  sexual behavior, thinking, memory, and learning, based upon human clinical data  and research in animal models.  **PSYC 220 – Images of Mind –** Introduction to neuroimaging and cognitive neuroscience, with a particular emphasis on critically evaluating neuroscience in the media. In addition to surveying reports in the popular press and their corresponding science articles, covers basic neuroanatomy, and neuroimaging techniques.  **PSYC 230 – Perception & Sensory Processes** **–** Experimental psychology of sensory and perceptual processes and behavior; emphasis on the contribution of behavior science to understanding subjective experience of the physical and social environment. | **Clinical/Develop/Organizational/Personality/Social – choose two**  **PSYC 201 – Intro to Social Psych** **–**  Systematic study of social factors in individual and group behavior; attention to social perception, motivation, and learning; attitudes, norms, and social influence processes; the development and dynamics of groups; and the effects of social and cultural factors on the individual.  **PSYC 207 – Psychology of Prejudice and Discrimination** – Examines the psychological causes and social consequences of prejudice and discrimination in society. Topics include stereotyping, cognitive biases, group conflict, ideology, implicit associations, subtle and benevolent forms of prejudice.  **PSYC 216 – Child Psychology –** Study of the psychological development of the child.  **PSYC 238 – Psychopathology and Problems in Living –**  Conceptions/facts about disordered behavior, including psychoses, neuroses & other patterns of psychological disturbance.  **PSYC 239 – Community Psych –** Redefines human and social problems and the implications for social programs and policies; reviews the historical antecedents, conceptual models, strategies and tactics of social and community programs; and employs examples from criminal justice, education, employment, and mental health.  **PSYC 245 – Industrial Org Psych** **–** Systematic study of the application of psychological methods and principles in business and industry; emphasis on personnel selection and factors influencing efficiency.  **PSYC 250 – Psych of Personality** **–**  Study of personality from various points of view: biological, experimental, social, and humanistic; surveys theory and empirical research in the study of personality. |

Concentration Courses

|  |  |
| --- | --- |
| **200-Level Core Course – choose one**  **PSYC 224 – Cognitive** **Psychology –**  Introduction to the psychological  study of human information processing/memory; acquisition, retrieval/forgetting;  and knowledge, concepts, reasoning, related to cognition.  **PSYC 248 – Learning and Memory** – Survey of basic phenomena in  learning and memory emphasizing experimental data from animal & human  research. | **Research Methods Course – choose one**  **PSYC 331 – Cognitive Psych Lab –** Examination of the methods used to  study human thought processes, including attention, memory, decision-making,  language and concepts. Students will learn to design, carry out, and report research  in cognitive psychology.  **PSYC 334 – Perception Lab** – Examination of the research methods used o  study human visual and spatial processes, including visual illusion, attention,  imagery, navigation and spatial memory. Students will learn to design, carry out,  and report psychological research. |
| **Concentration Electives – choose four**   |  |  | | --- | --- | | **BCOG 100 – Intro to Brain & Cog Sci –** Introduction to the study of  mind, brain, and behavior from a cognitive science perspective.  **BCOG 200 – Programming for Brain/Cognitive Science –** Introduction to computer programming concepts and their application to the study of brain and cognitive sciences. The course will teach basic programming concepts in Python, and introduce applications to experiment and game design, data analysis, computational modeling, and simulations.  **BCOG 301 – Intelligence & the Brain –** Study of human intelligence, with particular emphasis on modern research in cognitive neuroscience.  **BCOG/PSYC 458 – Intro Cognitive Science –** In-depth introduction to  cognitive science: the study of mind and intelligence, natural and artificial.  **PSYC 425 – Psych of Language –** Survey of theory and research in the psychology of language; topics include relation of linguistics and psychology, language development, and influence of language on perception, memory, and thought. | **PSYC** [**427 – Language and the Brain**](https://courses.illinois.edu/schedule/terms/PSYC/427) **–** How the human brain supports production and comprehension of language.  **PSYC 450 – Cognitive Psychophysiology –** Survey of the theory/  practice of using recordings of brain electrical activity to study normal and  abnormal perception, attention, decision-making, memory, response preparation,  and language.  **PSYC 468 – Psych & Law –** Examines relationship of the administrative, civil, and criminal justice systems to educational and mental health institutions; individual rights, social issues, and psychological well- being.    **PSYC 489 – Neural Network Modeling Lab –** Introduction to neural network modeling, the principles of neural computation, learning algorithms and the evaluation of neural networks as models of human perception and cognition.  **PSYC 496 – “VR Technology and Perception”**- Examines human perceptual principles related to Virtual Reality technology, VR applications and challenges in VR design. | |  |  | | | |