

Tentative Neuroscience Course Offerings

| Tier 1 | | | | | | | |
|-----------------|--|--------------|---|-------------|---------------|---------------|---------------|
| <u>Course #</u> | <u>Course Name</u> | <u>Units</u> | <u>Pre-requisites</u> | <u>Fall</u> | <u>Winter</u> | <u>Spring</u> | <u>Summer</u> |
| CBNS106 | Intro to Neuroscience | 4 | BIOL 5B (C– or better), CHEM1C | ✓ | ✓ | ✓ | ✓ |
| CBNS/PSYC120 | Cellular Neuroscience | 4 | CBNS106 | | ✓ | ✓ | ✓ |
| CBNS/PSYC120L | Neuroscience Laboratory | 2 | CBNS/PSYC120 | ✓ | ✓ | ✓ | ✓ |
| CBNS130L | Computational Neuroscience Lab | 2 | CBNS/PSYC120 | | | | |
| CBNS/PSYC124 | Systems Neuroscience | 4 | CBNS106 (C– or better) | ✓ | | ✓ | ✓ |
| Tier 2 | | | | | | | |
| <u>Course #</u> | <u>Course Name</u> | <u>Units</u> | <u>Pre-requisites</u> | <u>Fall</u> | <u>Winter</u> | <u>Spring</u> | <u>Summer</u> |
| BIOL178 | Hormones and Behavior | 4 | BIOL5C, CHEM1C, CHEM8C, PHYS2C, BCH100 or BCH110A, one course in statistics | | | | ✓ |
| CBNS101 | Fundamentals of Cell Biology | 4 | CHEM8C; BCH100 or BCH110A (concurrent enrollment okay) | ✓ | ✓ | ✓ | ✓ |
| CBNS116 | Human Neuroanatomy | 4 | CBNS106 (C– or better) | | | ✓ | |
| CBNS/PSYC121 | Developmental Neuroscience | 4 | CBNS106 | ✓ | ✓ | | ✓ |
| CBNS/PSYC125 | Neuropharmacology | 4 | CBNS/PSYC 120 | ✓ | | ✓ | |
| CBNS/PSYC126 | Neuroscience of Learning and Memory | 4 | CBNS106 or PSYC110 | | | | ✓ |
| CBNS/PSYC127 | Behavioral Control Systems | 4 | CBNS/PSYC120; CBNS/PSYC124 strongly recommended | | | ✓ | |
| CBNS129 | Brain Control of Bodily Functions | 4 | CBNS/PSYC124 (C– or better) | | ✓ | | |
| PSYC112 | Neural Mechanisms of Animal Behavior | 4 | CBNS106 or PSYC110 (C– or better) | | ✓ | | |
| PSYC117 | Cognitive Neuroscience of Memory & Consciousness | 4 | CBNS106 or PSYC110 (C– or better) | | | | |
| PSYC129 | Human Neuropsychology | 4 | CBNS106 (C– or better) | | | | |
| PSYC 136 | Topics in Cognitive Neuroscience | 4 | CBNS 106 (C– or better) | | | ✓ | |

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Schedule subject to change

Please consult catalog.ucr.edu for full list of pre-requisites and course descriptions

Tentative Neuroscience Course Offerings

| Tier 3* | | | | | | | |
|---------------|-----------------------------------|-------|---|------|--------|--------|--------|
| Course # | Course Name | Units | Prerequisites | Fall | Winter | Spring | Summer |
| BCH 110A** | General Biochemistry | 4 | BIOL5A, CHEM8C/8LC C- or better | ✓ | ✓ | | |
| BCH 110B | General Biochemistry | 4 | BCH 110A C- or consent of instructor | | ✓ | ✓ | |
| BCH 110C | General Biochemistry | 4 | BCH 110A C- or better, BIOL 102 or consent of instructor. BCH 110B highly recommended. | | ✓ | ✓ | |
| BCH 120 | Topics in Human Biochemistry | 4 | BCH 100 C+ or better, BCH 110B C- or better or consent of instructor | | | ✓ | |
| BCH 162 | Advanced Biochemistry Lab | 5 | BCH 15, BCH 110B, BCH 110C C- or better or consent of instructor | | ✓ | ✓ | |
| BIOL/ENTM 100 | General Entomology | 4 | Biol5B, BIOL5C or consent of instructor | ✓ | | ✓ | |
| BIOL 102 | Introductory Genetics | 4 | BIOL5A/5LA, BIOL5B C- or better | ✓ | ✓ | ✓ | ✓ |
| BIOL 105 | Evolution | 4 | BIOL5C C- or better, BIOL102, CHEM8C/8LC, MATH7B, PHYS2C/2LC, BCH 100 or 110A, one course in statistics, or consent of instructor | ✓ | ✓ | ✓ | ✓ |
| BIOL 107A | Molecular Biology | 4 | BIOL5A, 5B, 5C, CHEM1C, CHEM8C/8LC, MATH7B, PHYS2C/2LC, BCH 100 or 110A | ✓ | ✓ | ✓ | ✓ |
| BIOL 108 | Population Genetics and Genomics | 4 | BIOL 5A, 5B, 5C, CHEM1C, CHEM8C/8LC, MATH7B, PHYS2C/2LC one course in statistics | ✓ | | | |
| BIOL 110 | Biology of Human Problems | 4 | BIOL 5A, 5B, 5C, CHEM1C, CHEM8C/8LC, MATH7B, PHYS2C/2LC BCH 100 or 110A, one course in stats | ✓ | | ✓ | |
| BIOL 151 | Invertebrate Zoology | 5 | BIOL5A, 5B, 5C, PHYS2A C- or better | | | ✓ | |
| BIOL 160 | Animal Behavior | 4 | BIOL 5A, 5B, 5C, CHEM1C, CHEM8C/8LC, MATH7B, PHYS2C/2LC BCH 100 or 110A, one course in stats | ✓ | | | ✓ |
| BIOL 161A | Functional Anatomy of Vertebrates | 5 | BIOL 5A, 5B, 5C, CHEM1C, CHEM8A/8LA, MATH7B, PHYS2C/2LC one course in statistics, C- or better | ✓ | | | |
| BIOL 161B | Functional Anatomy of Vertebrates | 5 | BIOL161A, CHEM8B/8LB, PHYS2B, C- or better | | ✓ | | |
| BIOL/ENTM 162 | Insect Behavior | 4 | BIOL5A, 5B, 5C or BIOL/ENTM 100, or consent of instructor | ✓ | | | |
| BIOL171A | Human Anatomy and Physiology | 4 | BIOL161A (may be taken concurrently), CHEM8C/8LC, MATH7B, PHYS2C/2LC, BCH 100 or 110A, one course in stats | | ✓ | ✓ | |
| BIOL 171L | Human Anatomy and Phys Lab | 1 | Concurrent Enrollment in BIOL171 | | | ✓ | |
| BIOL 173 | Insect Physiology | 4 | BIOL5A, 5B, CHEM8ABC, 8LABC, or consent of instructor | | | ✓ | |
| BIOL 175 | Comparative Animal Physiology | 4 | BIOL 5A, 5B, 5C, CHEM1C, CHEM8C/8LC, MATH7B, PHYS2C/2LC BCH 100 or 110A, STAT100A. BIOL151 161B recommended. | | | | |

* Additional Tier 2 courses can be applied to Tier 3

** BCH 110A allowed in Tier 3 if BCH 100 taken first

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Schedule subject to change

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Tentative Neuroscience Course Offerings

Tier 3 Continued

| Course # | Course Name | Units | Prerequisites | Fall | Winter | Spring | Summer |
|---------------|---|-------|---|------|--------|--------|--------|
| CBNS108 | Intro to Developmental Biology | 4 | BIOL102, CHEM8C | | | ✓ | ✓ |
| CBNS/ENTX150 | Cancer Biology | 4 | BCH110C or BIOL107A or CBNS101 | | | ✓ | |
| CBNS165 | Stem Cell Biology | 4 | CBNS101 | | ✓ | | ✓ |
| CBNS169 | Human Embryology | 4 | BIOL5C | | ✓ | | |
| CBNS 194*** | Independent Reading | 1-2 | Consent of Instructor. Repeatable to a max of 4 units. | ✓ | ✓ | ✓ | ✓ |
| CBNS 197*** | Research for Undergraduates | 1-4 | Sophomore standing, 1 course in CBNS or UD standing, consent of instructor. Repeatable. | ✓ | ✓ | ✓ | ✓ |
| CBNS 199*** | Senior Research | 1-4 | Senior Standing, consent of instructor. Repeatable. | ✓ | ✓ | ✓ | ✓ |
| CS 170 | Introduction to Artificial Intelligence | 4 | CS 100 C- or better, CS 111 | | ✓ | ✓ | |
| PHYS 139L | Electronics for Scientists | 5 | PHYS2B B- or better, PHYS40C C- or better or consent of instructor | ✓ | ✓ | ✓ | |
| PSYC 115 | Drugs and Behavior | 4 | CBNS 106 C- or better or consent of instructor | | | | ✓ |
| PSYC 130 | Fundamentals of Learning and Conditioning | 4 | PSYC 1, 2, 11, 12 C- or better or consent of instructor | ✓ | | | |
| PSYC 132 | Perception | 4 | PSYC 1, 2, 11, 12 C- or better or consent of instructor | | ✓ | ✓ | ✓ |
| PSYC 134 | Cognitive Processes | 4 | PSYC 1, 2, 11, 12 C- or better or consent of instructor | ✓ | | ✓ | ✓ |
| PSYC 135 | Psycholinguistics | 4 | PSYC 1, 2, 11, 12 | | | | |
| STAT 100A**** | Introduction to Statistics | 5 | MATH5 or 7A | ✓ | ✓ | ✓ | ✓ |

*** Up to 9 units CBNS 194, 197 and 199 allowed in Tier 3, must be taken for a letter grade. Research in other departments must be reviewed by Neuroscience department before being applied to Tier 3.

**** STAT 100A allowed in Tier 3 if STAT40 or PSYC11 are taken first

Schedule subject to change

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