

NEUROSCIENCE B.S. CELLULAR AND MOLECULAR OPTION

Bachelor of Science - Neuroscience; Cellular and Molecular Concentration

College Humanities & Sciences

Degree Specific Credits: 76

Required Cumulative GPA: 2.0

Catalog Year: 2017-2018

General Education Requirements

Information regarding these requirements can be found in the General Education Section (<http://catalog.umt.edu/academics/general-education-requirements>) of the catalog.

Summary

Biology/Psychology Core Courses	25
Other Required Courses	33-34
Additional Major Courses	15
Intersection Courses	1-9
Total Hours	74-83

Biology/Psychology Core Courses

Rule: Must complete all of the following courses:

Note: BCH 110/BCH 111 may be substituted for BIOB 160N/BIOB 161N.

BIOH 458 satisfies the Upper Division Writing Requirement for the Major.

Select one of the following:	4
BIOB 160N & BIOB 161N	Principles of Living Systems and Prncpls of Living Systems Lab
BCH 110 & BCH 111	Intro Biology for Biochemists and Intro Biol for Biochemists Lab
BIOB 260	Cellular and Molecular Biology
BIOB 272	Genetics and Evolution
BIOH 280	From Molecules to Mind - Fundamentals of Neuroscience
BIOH 380	Cellular and Molecular Neuroscience
BIOH 458	Neuroscience Research
PSYX 250N	Fund of Biological Psychology
Total Hours	25

Minimum Required Grade: C-

Other Required Courses

Rule: Must complete all of the following courses:

Note: PSYX 222 may be substituted for STAT 216.

CHMY 141N & CHMY 142N	College Chemistry I and College Chemistry I Lab	5
CHMY 143N & CHMY 144N	College Chemistry II and College Chemistry II Lab	5
CHMY 221	Organic Chemistry I	3
CHMY 222	Organic Chemistry I Lab	2
CHMY 223	Organic Chemistry II	3
M 162	Applied Calculus	4
PHSX 205N	College Physics I	4
PHSX 206N	College Physics I Laboratory	1
PHSX 207N	College Physics II	4
PHSX 208N	College Physics II Laboratory	1
STAT 216 or PSYX 222	Introduction to Statistics Psychological Statistics	3-4
Total Hours		35-36

Minimum Required Grade: C-

Additional Major Courses

Rule: Must complete all of the following courses:

BCH 480	Advanced Biochemistry I	3
BCH 482	Advanced Biochemistry II	3
BIOB 425	Adv Cell & Molecular Biology	3
Total Hours		9

Minimum Required Grade: C-

Rule: Choose at least 1 of the following Courses:

Select at least 3 credits from the following:	3
BIOB 301	Developmental Biology
BIOH 365	Human AP I for Health Profnsns
BIOL 435	Comparative Animal Physiology
Total Hours	3

Minimum Required Grade: C-

Select at least one of the following:	3
BIOB 375	General Genetics
BIOB 468	Endocrinology
BMED 610	Neuropharmacology
BMED 646	Neurotoxicology
KIN 330	Motor Learning and Control
PSYX 356	Human Neuropsychology
Total Hours	3

Minimum Required Grade: C-

Intersection Courses

Select at least one of the following:	1-9
BIOE 406	Behavior & Evolution
DANC 345	Teaching for the Disabled
ECNS 491	Special Topics
GH 389E	Placebos: The Power of Words
HTH 430	Health and Mind/Body/Spirit

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LIT 491 Special Topics

PSYX 233 Fund of Psychology of Aging

Total Hours 1-9

Minimum Required Grade: C-