

**B.S. in Neuroscience  
COURSE CHECKLIST**

**Note:** Any particular course may only be applied to satisfy a single category below [1-4]

**[1] USG/GIT Core (areas A-F + health): 63 cr.**

Subject	Course No.	Semester	Year	cr.	grade
<i>Area A: (10 cr.)</i>					
ENGL	1101	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___
ENGL	1102	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___
MATH 1552 or 1555	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	4	___
<i>Area B: (3cr.)</i>					
CS 1301,1315 or 1371	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___
<i>Area C: Humanities electives (6 cr.)</i>					
_____	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
_____	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
<i>Area D: (12 cr.)</i>					
MATH	1551	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	2	___
MATH	1553	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	2	___
PHYS	2211	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	4	___
PHYS	2212	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	4	___
<i>Area E Social Science elective (12 cr.)</i>					
PSYC	1101	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___
_____	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
_____	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
_____	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
<i>Area F (18 cr.)</i>					
BIOL	1510	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	4	___
CHEM 1310 or 1211	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	4	___
CHEM 1315 <sup>a</sup>	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___
CHEM 3511 <sup>b</sup>	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___
NEUR	2001	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	4	___
<i>Health (2 cr.)</i>					
APPH 1040 or 1050	_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	2	___

<sup>a</sup> CHEM 2311 is an approved substitution for CHEM 1315 to fulfil Area F only for students who complete a full year of organic chemistry (i.e., both CHEM 2311 and CHEM 2312 or 2313 must be completed). CHEM 2312 or 2313 may be applied as part of a Breadth Elective Specialization or as a Free Elective). CHEM 2311 has an additional prerequisite: CHEM 1212K taken Free Elective.

<sup>b</sup> CHEM 4511 is an approved substitution for CHEM 3511 to fulfil Area F only for students who complete a full year of biochemistry (i.e., both CHEM 4511 and CHEM 4512 must be completed, with CHEM 4511 applied as part of the Breadth Elective Specialization or Free Electives).

**[2] Major Requirements: 30 cr.**

Subject	Course No.	Semester	Year	cr.	Grade
<i>Neuroscience Core (12 cr.)</i>					
APPH	4400	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___
NEUR	3001	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___
PSYC	4020	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___
NEUR	3010	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	3	___

Options	Check one selection	Semester	Year	cr.	Grade
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**Neuroscience Depth Electives (18 cr.)**

*One Research-based Elective (4 cr.)*

NEUR 4001 or NEUR 4699 <sup>a</sup>	<input type="checkbox"/>	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	4	___
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*One Interest Elective (3 or 4 cr.)*

Molecular/ Cellular	BIOL 3450 (3 cr.) and 3451 (1 cr.)	<input type="checkbox"/>			
or Systems	APPH 3755 (3 cr.) and 3756 (1 cr.)	<input type="checkbox"/>	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su <input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___ ___	___ ___
or Behavior/ Cognition	PSYC 4090 (3-0-3)	<input type="checkbox"/>			

*One Statistics Elective (3 or 4 cr.)*

PSYC 2020 (3-3-4) or BIOL 4401 (3-0-3) or MATH 3215,3225,3670 (3-0-3) or ISYE/CEE 3770 (3-0-3)	<input type="checkbox"/>	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
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*Additional Neuroscience Electives (6-8 cr.) - see list of approved courses*

_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
_____	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___

<sup>a</sup> NEUR 4699 only substituted for NEUR 4001 with completion of Research Option, which requires: (i) additional 2 cr. of NEUR 4699 applied to "Additional Neuroscience Electives"; (ii) 3 cr. NEUR 2699 or 4699 applied to Free Electives; and (iii) LMC 4701 (1 cr.) and LMC 4702 (1 cr.), or [approved equivalent](#), applied to Free Electives.

**[3] Breadth Elective Specialization** (Completion of a breadth elective specialization in Biochemistry, Biology, Chemistry, Computer Science, Engineering, [Health and Medical Sciences](#), Mathematics, Physics, Physiology or Psychology, *see list of approved breadth electives*).

Subject	Course No.	Semester	Year	cr.	Grade
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___

**[4] Free Electives** (*additional credits to make 122 credits overall; number varies*)

Subject	Course No.	Semester	Year	cr.	Grade
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___
___	___	<input type="checkbox"/> F <input type="checkbox"/> Sp <input type="checkbox"/> Su	___	___	___