

Biology MS Roadmap (2 year plan)

	FALL SEMESTER	SPRING SEMESTER
Year 1	Biostatistics and Experimental Design 5050 – 4 Effective Teaching Strategies for Grad. TAs* – 2 Supervised Grad. Research in Biology 6930 – 1 Primary Literature in Biology 6100 – 1 <i>8 units total</i>	Prof. Writing in the Biological Sciences 6020 – 2 Ethics in Biological Research 5010 – 1 Graduate elective* -4 Independent Grad. Research in Biology* 6953 – 3 <i>10 units total</i>
Year 2	Thesis proposal 6940 – 3 Presentation in Biological Sciences 6030 – 1 Advanced Topics content elective** – 2 <i>6 units total</i>	Graduate Thesis 6970 – 3 Independent Grad. Research in Biology 6953 – 3 <i>6 units total</i>

Biology MS Roadmap (3 year plan)

	FALL SEMESTER	SPRING SEMESTER
Year 1	Effective Teaching Strategies for Grad. TAs* – 2 Primary literature 6100 – 1 Supervised Grad Research in Biology 6930 – 1 Advanced topics content elective** – 2 <i>6 units total</i>	Prof. Writing in the Biological Sciences 6020 – 2 Ethics in Biological Research 5010 – 1 Graduate elective* – 2 Presentation in Biological Sciences 6030 – 1 <i>6 units total</i>
Year 2	Biostatistics and Experimental Design 5050 – 4 Graduate elective* – 2 <i>6 units total</i>	Independent Grad. Research in Biology* 6953 – 3 Thesis proposal 6940 – 3 <i>6 units total</i>
Year 3	Continuous enrollment - 0 <i>0 units total</i>	Graduate Thesis 6970 – 3 Independent Grad. Research in Biology 6953 – 3 <i>6 units total</i>

* 7 units of electives in Biology or related fields, a maximum of three of which can be Independent Graduate Research in Biology (695X). See detailed degree requirements below.

** A minimum of 2 units from 'Advanced Topics' content elective courses (Biol 6300 - 6390)

30 units total

Information on [continuous enrollment](https://www.csusb.edu/pace/all-programs/continuous-enrollment-graduate-candidacy-standing) to maintain graduate standing if you do not plan on taking classes in a given semester: <https://www.csusb.edu/pace/all-programs/continuous-enrollment-graduate-candidacy-standing>

Biology MS Degree Requirements (30 units)

<u>BIOL 5010</u>	Ethics in Biological Research*	1
<u>BIOL 5050</u>	Biostatistics and Experimental Design*	4
BIOL 6010	Effective Teaching Strategies for Graduate TAs	2
<u>BIOL 6020</u>	Professional Writing in the Biological Sciences	2
<u>BIOL 6030</u>	Presentation in Biological Sciences	1
<u>BIOL 6100</u>	Primary Literature in Biology	1
<u>BIOL 6930</u>	Supervised Graduate Research in Biology	1
<u>BIOL 6940</u>	Thesis proposal	3
Three units of Independent Graduate Research in Biology (from <u>BIOL 6951</u> , <u>6952</u> , <u>6953</u> , <u>6954</u> , <u>6955</u> , and/or 6956)		3
Two units selected from Biology courses numbered 6300-6490.		2
Seven units of electives to be chosen from courses in biology or related fields. Courses taken outside the department to fulfill these electives require prior approval of the Graduate Committee and thesis advisor. A maximum of three units from any combination of independent study and independent research courses, taken in addition to the required Independent Graduate Research, may be applied toward these electives.		7
<u>BIOL 6970</u>	Graduate Thesis	3
Total Units		30

*Students who have completed [BIOL 5010](#) or [BIOL 5050](#) at the undergraduate level may substitute any other 5000- or 6000-level course, selected in consultation with their thesis advisor, to meet the unit requirements of the degree.

<https://catalog.csusb.edu/colleges-schools-departments/natural-sciences/biology/biology-ms/>