

# Biology MS, Professional Science in Cellular and Molecular Biology Emphasis

MGMT 5600	Managing and Leading in Organizations
MKTG 5700	Integrated Marketing Strategies
BUS AD 5900	Law, Ethics and Business
<b>Total Hours</b>	<b>32</b>

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Maximum of 2 credit hours.

This Master of Science in Biology with the Professional Science in Cellular and Molecular Biology emphasis requires a total of 32 credit hours, of which at least half must be at the 5000-level or above. Students will take 21 credit hours in Biology, 9 hours in business courses, and 2 credit hours of internship/practicum. Professional Science students: 1) must take 2 seminars (4 credit hours total) of **BIOL 6889**, 2) are limited to a maximum of 2 credit hours of Topics in Cellular and Molecular Biology (**BIOL 5069**) and 3) cannot count any hours of Graduate Research (BIOL 6905) as part of the 32 credit hour total.

## Required Courses

BIOL 6889	Graduate Seminar (must be taken twice)	4
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Choose three of the following: 9-10

BIOL 6602	Advanced Molecular Biology
BIOL 6615	Advanced Biotechnology Laboratory II
BIOL 6622	Advanced Cellular Basis of Disease
BIOL 6632	Advanced Nucleic Acid Structure and Function
BIOL 6642	Advanced Plant Biology and Biotechnology

## Elective Courses in Biology 7-8

BIOL 4713	Techniques in Biochemistry
BIOL 4842	Immunobiology
BIOL 5069	Topics in Cellular and Molecular Biology <sup>1</sup>
BIOL 6442	Advanced Developmental Biology
BIOL 6550	Advanced Bacterial Pathogenesis
BIOL 6602	Advanced Molecular Biology
BIOL 6622	Advanced Cellular Basis of Disease
BIOL 6632	Advanced Nucleic Acid Structure and Function
BIOL 6642	Advanced Plant Biology and Biotechnology
BIOL 6652	Advanced Virology
BIOL 6920	Advanced Topics in Biology (when relevant)

## Required Internship or Practicum 2

BIOL 5798 or BIOL 5799	Practicum in Science in Business Internship in Sciences in Business
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## Professional Science Business Electives 9

MGMT 3623	Industrial and Organizational Psychology
BUS AD 5000	Economics for Managers
BUS AD 5100	Managerial Communication