MB 538. Cell & Molecular Biol. 2 Credits. Su
PREREQUISITE: BIOM 360, BCH 380 or BIOL 402, MB 536, or the equivalent.
COREQUISITE: Graduate standing or petition approval from the Vice Provost of
Graduate Education. An inquiry-based laboratory in prokaryotic and eukaryotic
C&M provides training in microbiological techniques: recombinant DNA,
phylogenetic analyses, growth, cell cycle regulation, gene expression, protein
purification, and immunoassays. Current literature and laboratory discussions cover
molecular approaches for investigating complex cellular mechanisms.

<table>
<thead>
<tr>
<th>Term</th>
<th>CRN</th>
<th>Section</th>
<th>Session/Dates</th>
<th>Days</th>
<th>Location</th>
<th>Time</th>
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<tr>
<td>2020 Summer</td>
<td>11058</td>
<td>001</td>
<td>Non-standard term dates 18-MAY-20 to 7-AUG-20</td>
<td>MTWRF</td>
<td>LEWIS201</td>
<td>8:00am - 5:00pm</td>
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MB 540. Environmental Microbiology. 3 Credits. (3 Ind) F
PREREQUISITE: MB 536 and MB 541 or equivalent course. COREQUISITE:
BS in biology or equivalent; Graduate standing or petition approval from the
Vice Provost of Graduate Education. Biotechnology, industrial microbiology,
antimicrobial chemotherapy, public health, epidemiology, climate change,
food water, wastewater, extreme environments, space travel, biodegradation,
bioremediation and bioaugmentation. Ideal for middle/high school/college teachers,
and others in education/outreach, e.g., museums, zoos, National Parks, nature
preserves, environmental health.

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<tr>
<td>2020 Summer</td>
<td>10802</td>
<td>801</td>
<td>Intersession</td>
<td>-</td>
<td>ONLINEWEB</td>
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MB 541. Microbial Genetics. 3 Credits. (3 Lec) Su alternate years, to be offered
odd years.
Prokaryotes provide much of the understanding of fundamental genetics for all
organisms, especially through in vivo and in vitro genetic tools. Transcription,
translation, mutation and recombination are considered, so that science teachers
understand of fundamentals of genetics. This course is intended for practicing
teachers and those in the MSSE program.

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<td>801</td>
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MB 591. Special Topics. 1-4 Credits. (1-4 Lec; 12 cr max) On Demand
PREREQUISITE: Upper division courses and others as determined for each
offering. Courses not required in any curriculum for which there is a particular one
time need, or given on a trial basis to determine acceptability and demand before
requesting a regular course number.

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<th>Days</th>
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<td>2020 Summer</td>
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<td>002</td>
<td>First Half</td>
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MB 594. Seminar. 1 Credit. (1 Sem; 4 cr max) F,S
PREREQUISITE: Graduate standing or seniors by petition. Course prerequisites
as determined for each offering. Topics offered at the graduate level which are
not covered in regular courses. Students participate in preparing and presenting
discussion material. There are separate sections for departmental seminar, general/
environmental and biomedical microbiology journal clubs and graduate reading;
consult the.

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</table>
**Font Notice**

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.