Unofficial Graduation Checklist

Name _____________________________________________________                 R# ______________________

Catalog year – 2017-2019

Major – Microbiology

Microbiology Core (19 hours)
____  BIOL 1403  Biology I  (CL)                          (Fall only)
____  BIOL 1404  Biology II  (CL)                          (Spring only)
____  BIOL 3416  Genetics (CL) (may sub MBIO 4406)
____  BIOL 3305  Organic Evolution
____  MBIO 3401  Principles of Microbiology

Microbiology electives (Choose 5 different classes from approved list on back)
1. ____________                4. ____________
2. ____________                5. ____________
3. ____________

Biology Electives (as needed to reach 39 hours)
(Choose from any 3000-4000 level electives in BIOL, BOT, MBIO or ZOOL to bring total to 39 hours)
- Does NOT include MBIO 3400
- You may apply either PHIL 3322 or 3325 or 3334 as an upper-division elective, but only one.
- No more than 6 hours of Undergraduate Research may apply to your degree.

________________  ____________  ____________

Chemistry (19 hours)
____  CHEM 1307  Principles of Chemistry I
____  CHEM 1107  Exp. Principles of Chemistry I
____  CHEM 1308  Principles of Chemistry II
____  CHEM 1108  Exp. Principles of Chemistry II
____  CHEM 3305  Organic Chemistry I
____  CHEM 3105  Exp. Organic Chemistry I
____  CHEM 3306  Organic Chemistry II
____  CHEM 3106  Exp. Organic Chemistry II
____  CHEM 3310  Molecular Biochemistry
    OR
____  CHEM 3311/3111  Biological Chemistry I  and
____  CHEM 3312  Biological Chemistry II

Physics (8 hours)
____  PHYS 1403  General Physics I
____  PHYS 1404  General Physics II

Math (Minimum 6 hours)
____  MATH 2300 or 1451
____  MATH _________ (college algebra or higher)

General Education Requirements: When selecting courses to fulfill your General Education requirements, you must ALWAYS refer to the approved selection of courses in the TTU catalog.

English (9 hours required)
____  ENGL 1301
____  ENGL 1302
____  2000-level English Lit  i.e. ENGL 2307, 2351, 2388, 2391, 2310, 2381, 2382, 2383

** Note – ENGL 2371 will not complete Eng. Lit requirement

Oral Communication (3 hours required)
____  Choose from COMS 2300, COMS 2358, CFAS 2300, ENGR 2331, or MCOM 2310

Foreign Language (Hours vary) A minimum of one semester of foreign language at the 2000-level or above plus necessary pre-reqs.

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U.S. & Texas History (6 hours) Choose 2 of following 3:
____  HIST 2300  ____  HIST 2301  ____  HIST 2310

U.S. & Texas Government (6 hours)
____  POLS 1301
____  POLS 2306
(POLS 2302 prior to 2017 catalog)

Social & Behavioral Sciences (3 hours)

______

Creative Arts (3 hours) _________

Personal Fitness & Wellness (1 hour)

____________

Multicultural (3 hours) _________

Mathematics (6 hours) & Life Sciences (8 hours) are met by your Biology degree requirements.

Language, Philosophy & Culture (3 hours) _________
*May be Fulfilled by selected English Lit

Communication Literacy Classes – Beginning with the 2017 catalog, you must take 3 Communication Literacy courses in your major.
Other Graduation Requirements:

Minor – Chemistry
May be fulfilled by adjunct requirements for MBIO major.

Have you taken 40 hours of 3000-4000 (upper) level classes?

Optional Courses:

Pre-requisites for Post-graduate programs

Approved list of MBIO electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL 3320</td>
<td>Cell Biology</td>
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<tr>
<td>BIOL 4300</td>
<td>Undergrad Research (3 hours may apply as an MBIO elective – additional 3 hours may apply as elective needed to reach 39 hours)</td>
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<tr>
<td>MBIO 4303</td>
<td>Physiology of Bacteria (CL)</td>
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<tr>
<td>MBIO 4310</td>
<td>Introduction to Virology</td>
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<tr>
<td>MBIO 4311</td>
<td>Biofilms</td>
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<tr>
<td>MBIO 4367</td>
<td>Molecular Pathogenesis of Protozoans (CL)</td>
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<tr>
<td>MBIO 4401</td>
<td>Microbial Ecology (CL)</td>
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<tr>
<td>MBIO 4402</td>
<td>Immunology and Serology</td>
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<tr>
<td>MBIO 4403</td>
<td>The Biology of Fungi</td>
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<tr>
<td>MBIO 4404</td>
<td>Pathogenic Microbiology</td>
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<tr>
<td>MBIO 4406</td>
<td>Genetics of Microorganisms</td>
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<tr>
<td>FDSC 3301</td>
<td>Food Microbiology</td>
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Approved Special Topics Courses

BIOL 4301 Immune Response & Inflammatory Disease (CL)
BIOL 4301 Virology II
BIOL 4301 Microbiomes

Approved Honors Courses

HONS 3302-H01 Epidemiology of Infectious Diseases: Impacts on Human Health, Wildlife and Agriculture