Academic Advisement Report
UGRD.UAGSC.MICRBS
Undergraduate Career
College of Ag & Life Sciences Program
Microbiology Major (BS)
Requirement Term: Fall 2011

**Undergraduate Graduation Requirements**

All course work and requirements for this degree must be completed prior to the date the degree is awarded. The University of Arizona requirements to follow in this audit are required for graduation and awarding of the degree.

Curriculum:
1. The University of Arizona and the Arizona Board of Regents have sole discretion over all curricula changes.
2. Courses, programs & requirements may be suspended, deleted, restricted, or changed in any manner, at any time.
3. Students must remain currently informed about all policies & other info that bears on completing a degree.

Required Units:
Additional units will be required to complete this degree if a student:
A) is admitted to the UA with deficiencies;
B) changes his/her academic plan(s);
C) fails to meet minimum course/plan requirements;
D) ineffectively plans or fails to execute a course of study that leads directly to degree completion; or
E) is completing more than one baccalaureate degree.

The following requirements must be met for graduation.

**Units Required and Cumulative GPA**

120 units are required at a 2.0 GPA. View the pdf report grid for units earned toward this degree and cumulative GPA.

Completing a second bachelor’s degree at The University of Arizona requires no fewer than 30 units in addition to the units required for the first degree, and all requirements for the second degree must be met.

**Upper Division Units**

Not Satisfied: A minimum of 42 units of upper-division credit are required for this degree.

- Units: 42.00 required, 0.00 completed, 42.00 needed

**Units in Residence**

Not Satisfied: A minimum of 30 units in residence at The University of Arizona (excluding correspondence credit and credit by exam) is required.

- Units: 30.00 required, 0.00 completed, 30.00 needed

**Final Units in Residence**

Not Satisfied: A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona.

- Units: 18.00 required, 0.00 completed, 18.00 needed

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**Correspondence and/or Exam Credit Limit**

**Satisfied:** A maximum of 60 units of Correspondence Credit and/or Exam Credit may apply toward graduation.

**Non Degree Seeking Limit**

A maximum of 15 units completed as a non-degree seeking student may be used for fulfilling undergraduate degree requirements. Units exceeding this limit must be subtracted from the units required towards the degree and graduation requirements.

**Community College Limit**

**Not Satisfied:** A maximum of 64 units of community college course work may apply toward graduation. A minimum of 56 units of course work must be completed at a 4-year institution, military institution, or as test credit.

- **Units:** 56.00 required, 0.00 completed, 56.00 needed

**Success Course Limit**

**Satisfied:** No more than 3 units will apply toward a student's graduation requirements. Success Course units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

**Foundation Mathematics**

**Not Satisfied:** Foundation Mathematics

**GE Substantial Math Strand**

**Not Satisfied:** Complete 1 course from Math 113, 124, or 125.

- **Units:** 2.67 required, 0.00 completed, 2.67 needed
- **Courses:** 0.00 completed
Courses Available

MATH 113, MATH 113-CC, MATH 124, MATH 125, MATH 125-CC

Undergraduate General Education and Foundation Requirements

Overall Requirement Not Satisfied: Undergraduate General Education and Foundation Requirements

Foundation Composition

Not Satisfied: Complete 1 of the 2 following options:
1. First and Second Semester Composition OR
2. Honors Composition

Mid-Career Writing Assessment - Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or better in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B in 2nd semester English Composition.

Option 1: First Semester Composition

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 101, ENGL 103H, ENGL 107

AND Option 1: Second Semester Composition

Not Satisfied: AND Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 102, ENGL 104H, ENGL 108

OR Option 2: Honors Composition

Not Satisfied: OR Complete 1 course with a C or better.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ENGL 109H
**Foundation Second Language - Second Semester Proficiency**

**Not Satisfied:** Credit will not be given for a course at an equivalent or lower level than prior language credit earned. Course must be taken for a grade, not as pass/fail. Third semester or higher courses used to fulfill this requirement may also be used to fulfill other requirements.

Demonstrate second semester proficiency in a second language by completing a sequence of courses through a second semester or higher level or by passing a language proficiency examination at the second semester level or higher.

**Second Semester Language Course**

**Not Satisfied:** Complete 1 course.


- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

**Courses Available**


**General Education Tier I**

**Overall Requirement Not Satisfied:** Complete 2 courses in each of the following areas.

**Tier I Individuals & Societies**

**Not Satisfied:** Fulfillment of Individuals and Societies requires completion of two distinctly numbered courses (e.g., INDV 101 & 103 or PSY 150A1 & ANTH 150B1 or PSY 150A1 & INDV 103).

Only one course may be completed from the 150A options OR INDV 101. Only one course may be completed from the 150B options OR INDV 102. Only one course may be completed from the 150C options OR INDV 103.

INDV 101 = 150A#
INDV 102 = 150B#
INDV 103 = 150C#

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

**Courses Available**

Tier I Traditions & Cultures

Not Satisfied: Fulfillment of Traditions and Cultures requires completion of two distinctly numbered courses (e.g., TRAD 102 & 104 or AFAS 160C2 & RSSS 160C1 or TRAD 101 & RSSS 160C1).

Only one course may be completed from the 160A options OR TRAD 101. Only one course may be completed from the 160B options OR TRAD 102. Only one course may be completed from the 160C options OR TRAD 103. Only one course may be completed from the 160D options OR TRAD 104.

TRAD 101 = 160A#
TRAD 102 = 160B#
TRAD 103 = 160C#
TRAD 104 = 160D#

Courses Available

General Education Tier II

Overall Requirement Not Satisfied: Complete 1 course from each of the following areas.

Tier II Arts:

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

Courses Available

Tier II Humanities

**Not Satisfied:** Prerequisite course work in Tier 1 Traditions and Cultures (TRAD) must be completed prior to taking. If LAT 201 or 202 are used to fulfill Foundation Second Language Proficiency, they cannot be used to fulfill Tier II Humanities.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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Courses Available


Tier II Individual & Societies

**Not Satisfied:** Prerequisite course work in Tier 1 Individuals and Societies (INDV) must be completed prior to taking.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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Courses Available


Diversity Emphasis Course

**Not Satisfied:** One course must be taken that focuses on Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies. Courses used to fulfill this requirement may also be used to fulfill other requirements.

Diversity Emphasis Course
Not Satisfied: General Education Diversity Emphasis Course: Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

INDV 101 will only fulfill this area if topic taken is "Race, Ethnicity, and the American Dream".

- **Courses**: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**


**Additional Coursework**

Courses listed in this section may include general elective credits, UA courses and transferable courses from other institutions. Consult with your advisor to determine if courses listed in this section may be used to fulfill a requirement or sub-requirement in your degree program.

Courses taken for Pass/Fail option can only count as elective credit. They cannot fulfill any General Education, Major, or Minor requirements.

**Microbiology Pre-Major Requirements**

Not Satisfied: Courses used to fulfill this requirement may also be used to fulfill other requirements.

**Microbiology Pre-Major Courses**

Overall Requirement Not Satisfied: Courses used to fulfill this requirement may also be used to fulfill other requirements.

1. **Biology I**

- Not Satisfied: Complete 4 units

- **Units**: 4.00 required, 0.00 completed, 4.00 needed
Courses Available

MCB 181L, MCB 181R

OR 1. Option 2: Biology I

Not Satisfied: Complete MCB 184

- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

MCB 184

2. Biology II

Not Satisfied: Complete ECOL 182L and 182R

- Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

ECOL 182L, ECOL 182R

3. Microbiology

Not Satisfied: Complete MIC 205A and 205L

- Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

MIC 205A, MIC 205L

4. Inorganic Chemistry I

Not Satisfied: Complete 4 units

- Units: 4.00 required, 0.00 completed, 4.00 needed
Courses Available

CHEM 151, (***) (###), CHEM 103A, CHEM 103A-CC, CHEM 104A

5. Inorganic Chemistry II
   Not Satisfied: Complete 4 units
   · Units: 4.00 required, 0.00 completed, 4.00 needed

Courses Available

CHEM 152, (***) (###), CHEM 103B, CHEM 103B-CC, CHEM 104B

6. Organic Chemistry I
   Not Satisfied: Complete CHEM 241A and 243A
   · Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

CHEM 241A, CHEM 243A, (***) (###)

7. Organic Chemistry II
   Not Satisfied: Complete CHEM 241B and 243B
   · Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

CHEM 241B, CHEM 243B, (***) (###)

8. Biochemistry
   Not Satisfied: Complete BIOC 384
- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

BIOC 384

9. Communication

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

AGTM 422, FSHD 401, FSHD 428, FSHD 428-CC

10. Physics I

Not Satisfied: Complete PHYS 102 and 181

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

PHYS 102, PHYS 102-CC, PHYS 181

11. Physics II

Not Satisfied: Complete PHYS 103 and 182

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

PHYS 103, PHYS 103-CC, PHYS 182

12. Statistics

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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### Courses Available

- **MATH 263, MATH 263-CC, PSY 230, PSY 230-CC, ISTA 116, COMM 200, GEOG 200, PA 200, POL 200, SBS 200, SOC 200**

### BS in Microbiology

**Overall Requirement Not Satisfied:** Bachelor of Science in Microbiology

### Microbiology Major Core Requirements

**Not Satisfied:** Microbiology Major Core Requirements

1. **Core Courses I**

   **Not Satisfied:** Complete 5 courses

   - **Courses:** 5.00 required, 0.00 completed, 5.00 needed

### Courses Available


### Microbiology Focal Options

**Not Satisfied:** Complete 1 option. All options need to include at least 1 lab course.

- **Option 1: Environmental Microbiology - Required Courses**

  **Not Satisfied:** Complete 3 courses

  - **Courses:** 3.00 required, 0.00 completed, 3.00 needed

### Courses Available

- **CPH 418, MIC 425, MIC 426, SWES 418, SWES 425, SWES 426**

**AND Option 1: Environmental Microbiology - Electives**
**Not Satisfied:** Complete 8 units.

- **Units:** 8.00 required, 0.00 completed, 8.00 needed
- **Courses:** 0.00 completed

### Courses Available

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**AND Option 1: Environmental Microbiology - Lab Requirement**

Not Satisfied: Complete 1 course.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

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**OR Option 2: Medical Microbiology - Required Courses I**

Not Satisfied: Complete 2 courses.

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

### Courses Available

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**AND Option 2: Medical Microbiology - Required Courses II**

Not Satisfied: Complete 2 courses.

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

### Courses Available

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The University of Arizona
### Courses Available

ECOL 403R, ENTO 403R, MCB 433, MIC 403R, MIC 420, MIC 433, VSC 403R, VSC 420, VSC 433

**AND Option 2: Medical Microbiology - Electives**

**Not Satisfied:** Complete 6 units.

- **Units:** 6.00 required, 0.00 completed, 6.00 needed
- **Courses:** 0.00 completed

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**Courses Available**


**AND Option 2: Medical Microbiology - Lab Requirement**

**Not Satisfied:** Complete 1 course.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

ANS 380, CPH 418, SWES 418

**OR Option 3: Food Safety & Public Hlth Microbio - Required Courses I**

**Not Satisfied:** Complete 2 courses.

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

**AND Option 3: Food Safety & Public Hlth Microbio - Required Courses II**

**Not Satisfied:** Complete 1 course.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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### Courses Available

ANS 443, BIOC 443, MIC 420, MIC 443, MIC 454, VSC 420, VSC 443, VSC 454

### AND Option 3: Food Safety & Public Health Microbiology - Electives

Not Satisfied: Complete 6 units.

- Units: 6.00 required, 0.00 completed, 6.00 needed

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### Courses Available

ANS 420, ANS 443, BIOC 443, MIC 420, MIC 425, MIC 443, MIC 454, N_SC 301, SWES 425, VSC 400A, VSC 400B, VSC 405, VSC 420, VSC 443, VSC 454, VSC 456, WFSC 456

### AND Option 3: Food Safety & Public Health Microbiology - Lab Rqmt

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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### Courses Available

ANS 420, ANS 443, BIOC 443, MIC 443, VSC 443

### OR Option 4: Microbial Biotech & Genomics Microbio - Required Courses

Not Satisfied: Complete 3 courses.

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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### Courses Available

ECOL 326, MCB 340, MCB 411, MIC 340, PLS 340

### AND Option 4: Microbial Biotech & Genomics Microbio - Electives

Not Satisfied: Complete 7 units.

- Units: 7.00 required, 0.00 completed, 7.00 needed

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### Courses Available

<table>
<thead>
<tr>
<th>Subject</th>
<th>Catalog Nbr</th>
<th>Course Title</th>
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</thead>
</table>

**OR Option 4: Microbial Biotech & Genomics Microbio - Lab Rqmt**

- **Not Satisfied:** Complete 1 course.
  - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

<table>
<thead>
<tr>
<th>Subject</th>
<th>Catalog Nbr</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE 447, MIC 399, MIC 399H, MIC 493, MIC 499, MIC 499H</td>
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</tr>
</tbody>
</table>

**OR Option 5: Plant Pathology & Microbiology - Required Courses**

- **Not Satisfied:** Complete 2 courses.
  - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

### Courses Available

<table>
<thead>
<tr>
<th>Subject</th>
<th>Catalog Nbr</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIC 305, MIC 451, PLP 305, PLP 305-CC, PLP 451</td>
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</tbody>
</table>

**AND Option 5: Plant Pathology & Microbiology - Electives**

- **Not Satisfied:** Complete 9 units.
  - **Units:** 9.00 required, 0.00 completed, 9.00 needed

### Courses Available

<table>
<thead>
<tr>
<th>Subject</th>
<th>Catalog Nbr</th>
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</thead>
<tbody>
<tr>
<td>ECOL 326, ECOL 345, ECOL 409, ECOL 475, MCB 360, MCB 361, MCB 411, MIC 425, MIC 426, MIC 427R, MIC 438, MIC 454, PLP 427R, PLS 360, PLS 361, SWES 425, SWES 426, VSC 427R, VSC 438, VSC 454, VSC 456, WFSC 456</td>
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</tbody>
</table>

**AND Option 5: Plant Pathology & Microbiology - Lab Requirement**

(R3337/L140)
Not Satisfied: Complete 1 course.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

MCB 361, MIC 399, MIC 399H, MIC 426, MIC 493, MIC 499, MIC 499H, PLS 361, SWES 426

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**Microbiology Graduation Requirements**

**Overall Requirement Not Satisfied:** Microbiology Graduation Requirements

**Mid Career Writing Assessment**

Not Satisfied: Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or higher in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B or higher in 2nd semester English Composition.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Major Units**

Not Satisfied: A minimum of 30 units must be completed in the major.

- **Units:** 30.00 required, 0.00 completed, 30.00 needed

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**Major GPA**

Satisfied: A minimum 2.0 GPA is required in the major coursework.

- **Units:** 0.00 completed
- **GPA:** 2.000 required, 0.000 completed

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**Major Upper Division**

Not Satisfied: A minimum of 18 units of upper-division major coursework must be completed.

- **Units:** 18.00 required, 0.00 completed, 18.00 needed
Major Residency:  
**Not Satisfied:** A minimum of 18 units in the pre-major, supporting coursework, professional core, and/or major must be taken at the University of Arizona.

- **Units:** 18.00 required, 0.00 completed, 18.00 needed

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Minor Optional:  
**Satisfied:** A minor is optional for this major. Consult with your advisor to select a minor or discuss other options such as selecting a second major.