GENERAL REQUIREMENTS

Mathematics Requirement: (3-5 Units)

Complete one of the following:
- MATH 113 – Elements of Calculus 3____
- MATH 122A/B – Functions of Calculus /First-Semester Calculus 5____
- MATH 125 – Calculus I 3____

Composition Requirements: (3-6 Units)

ENGL 101 – Freshman Composition 3____
ENGL 102 – Freshman Composition 3____
or
ENGL 109H – Advanced First Year Composition 3____

Second Language Requirements: (0-8 Units)

Complete one of the following:
- Pass a language proficiency exam at 2nd semester level  _____
- Complete courses through 2nd semester proficiency  _____

General Education Requirements:

Tier I Individuals and Societies (21-24 Units)

_________________________150 A, B, C or D 3____

Tier I Tradition and Cultures

_________________________160 A, B, C or D 3____

Tier II Individuals & Societies 3____

Tier II Humanities 3____

Tier II Arts 3____

Diversity Emphasis Course 3____

Note: Certain Tier I and Tier II courses can also be used to meet this requirement

Tier I and II Natural Sciences Requirement is satisfied by MICRO major coursework.

SUPPORTING COURSEWORK (45-47 Units)

MCB 181R – Introductory Biology I 3____
MCB 181L – Introductory Biology I Lab 1____
ECOL 182R – Introductory Biology II 3____
ECOL 182L – Introductory Biology II Lab 1____

Microbiology: Complete one of the following sequences:

- MIC 285R – Principles of Microbiology (SP only) 4____
- MIC 285L – Principles of Microbiology Lab (SP only) 1____

OR
- MIC 205A – General Microbiology 3____
- MIC 205L – General Microbiology Lab 1____

CHEM 151 – General Chemistry I 4____
CHEM 152 – General Chemistry II 4____
CHEM 241A – Organic Chemistry I 3____
CHEM 243A – Organic Chemistry I Lab 1____
CHEM 241B – Organic Chemistry II 3____
CHEM 243B – Organic Chemistry II Lab 1____
BIOC 384 – Foundations in Biochemistry 3____

Communication: Complete one of the following:

- COMM 101 – Introduction to the Study of Communication 3____
- COMM 119 – Public Speaking 3____
- ALC 422 – Communicating Knowledge in Agriculture and Life Sciences (F only) 3____

PHYS 102 – Introductory Physics I 3____
PHYS 181 – Introductory Physics I Lab 1____
PHYS 103 – Introductory Physics II 3____
PHYS 182 – Introductory Physics II Lab 1____

Statistics: Complete one of the following:

- SBS 200 – Introduction to Statistics for the Social Sciences 3____
- PSY 230 – Psychological Measurements and Statistics 3____
- AREC 239 – Introduction to Statistics and Data Analysis 4____
- MATH 263 – Introduction to Statistics and Biostatistics 3____

MAJOR CORE COURSEWORK (36 Units)

ACBS 355 – Food Processing (SP only) 3____
NSC 353 – Fundamentals of Food Science & Safety 3____
NSC 351L – Food Studies Lab 1____
ACBS 380R – Food Safety & Microbiology (F only) 3____
ACBS 380L – Food Safety & Microbiology Lab (F only) 1____
EPID 479 – Infections & Epidemics (SP only) 3____
ACBS 377 – Food Toxicology (F only) 3____
ACBS 437 Food Safety Laws & Legal Policies (F only) 3____
ACBS 420 – Meat Animal Composition (SP only) 3____
MIC 430 – Food Microbiology and Biotechnology (SP only) 3____
MIC 430L – Food Microbiology and Biotechnology Lab (SP only) 2____
ACBS Electives _____ out of 8
FOOD SAFETY ELECTIVE COURSEWORK

*Up to 3 units of Independent Study (ACBS 399/499), Directed Research (ACBS 492), Internship (ACBS 493), or Preceptorship (ACBS 491) can be counted as elective units

Fall Semester
PLP/MIC 427R General Mycology (3)
ENVS/MIC 425 Environmental Microbiology (3)
ENVS/MIC 426 Environmental Micro Lab (2)
MIC 438 Ecology of Infectious Diseases (3)
MIC 419 General Immunology Concepts (4)
MIC 420 Pathogenic Bacteriology (3)
MIC 452 Antibiotics: A Microbial Perspective (3)
MIC 329A Microbial Diversity (3)
PLP 305 Introductory Plant Pathology (3)
ENTO 468 Insect Pest Management (3)

Spring Semester
PLP 428R Microbial Genetics (3)
PLS 467 Fresh Produce Safety (3)
MIC 454 Host Pathogen Interactions (3)
CPH 479 Infections and Epidemics (3)
CPH 376 Introduction to Biostatistics (3)
ACBS 317 One Health: A Microbial Perspective (3)
CPH 309 Introduction to Epidemiology (3)
CPH 418 Introduction to Health Risk Assessment (3)
ENTO 446 Insect Pathogens: Biocontrol Agents and Biological Models (3)