

Northeast Iowa Community College to ISU transfer guide for Microbiology BS

Courses to be completed at Northeast IA CC

Courses to be completed at ISU for 2021-2022 catalog

Strongly recommended

ENG 105 & 106
 BIO 112 & 113
 CHM 160, 161 & 170¹
 MAT 156
 MAT 128
 MAT 210¹
 PHYS 162 & 172
 SPC 112

General Education

Humanities – Pick 1

HIS 131 World Civilization 1 3
 HIS 132 World Civilization 2 3
 HIS 151 US History to 1877 3
 HIS 152 US History since 1877 3
 LIT 101 Introduction to Literature 3
 PHI 101 Introduction to Philosophy 3
 REL 105 Introduction to Religion 3

Ethics PHI 105

Social Science – Pick 1

AGB 235 Introduction to Agriculture Markets 3
 CRJ 100 Introduction to Criminal Justice 3
 CRJ 201 Juvenile Delinquency 3
 ECN 120 Principles of Macroeconomics 3
 ECN 130 Principles of Microeconomics 3
 POL 111 American National Government 3
 PSY 251 Social Psychology 3
 PSY 261 Human Sexuality 3
 SOC 110 Introduction to Sociology 3
 SOC 115 Social Problems 3
 SOC 120 Marriage and Family 3
 SOC 208 Introduction to Cultural Anthropology 3

65 cr. Limit that can apply to BS

Recommended Preparation

Bio 183 & 184 Microbiology & Lab 4

English, Math & Science Courses

Composition 1 & 2
 General Biology 1 & 2 6
 Chemistry 1 & 2 & Lab 8
 Statistics 7.5
 Precalculus 3
 Calculus 1 4
 College Physics 1 & 2 8
 Public Speaking 3

Requirements

World Civilization 1 3
 World Civilization 2 3
 US History to 1877 3
 US History since 1877 3
 Introduction to Literature 3
 Introduction to Philosophy 3
 Introduction to Religion 3
 Introduction to Ethics 3

Introduction to Agriculture Markets 3
 Introduction to Criminal Justice 3
 Juvenile Delinquency 3
 Principles of Macroeconomics 3
 Principles of Microeconomics 3
 American National Government 3
 Social Psychology 3
 Human Sexuality 3
 Introduction to Sociology 3
 Social Problems 3
 Marriage and Family 3
 Introduction to Cultural Anthropology 3

Microbiology

Micro 110 Orientation in Micro 1
 Micro 302, 302L Biology of Microorganisms² 4
 Micro 310, 310L Medical Micro with Lab 4
 Micro 320 Molecular and Cellular Bacteriology 4
 Environmental Micro 430 Micro Diversity & Ecology
 456 Mycology 3
 477 Bacterial-Plant Interactions
 Micro 440 Microbial Physiology, Div., & Genetics Lab 4
 Micro 450 Microbiology Seminar 2
 Micro 451 Microbiology Junior Survey R
 Micro electives Micro Choices 9

Biochemistry

(Minimum 3 credits)

BBMB 301 or Survey Biochemistry 3
 BBMB 336 or Principles of Biochemistry 3
 BBMB 404 or 405 Biochemistry 1 & 2 6

Biological Sciences

Bio 313, 313L Genetics with Lab 4
 Bio 314 or 328 Cell Biology 3

English – Pick 1 course

Engl 302 Business Communications 3
 Engl 309 Proposal and Report Writing 3
 Engl 312 Biological Communications 3
 Engl 314 Technical Communications 3

Personal Development

Int'l Perspective 3
 US Diversity 3
 Lib 160 1
 Electives **To reach 128 total credits**

¹ Students intending to double major in Micro/Biochemistry or Micro/Genetics should take Mat 210 and Mat 216 and CHM 171 Lab at Northeast Iowa CC.

² Credit for Bio 186 at DMACC counts as Micro 302Lab, but if lab was not face to face, recommend student take Micro 302 Lab at ISU

The Course numbers may vary somewhat from school to school. Double check the ISU Course Equivalency guides (<http://www.admissions.iastate.edu/equiv/index.php?state=iowa>)