

GENERAL EDUCATION

74 General Education Program Requirements



ASSOCIATE OF ARTS AND ASSOCIATE OF SCIENCE GENERAL EDUCATION REQUIREMENTS

The following General Education requirements apply to all Associate of Arts and Associate of Science degrees except the Associate of Arts in General Education (formerly the Associate of Arts). This program has specific General Education requirements. Please see the specific information in the program for more information.

The General Education program for the Associate of Arts and Associate of Science degrees promotes the intellectual growth of all students in National University's Associate level undergraduate degree programs. The general education curriculum assumes that undergraduates will not concentrate on a major field of study until they have completed a general education program that provides instruction in writing and mathematical skills as well as introducing the student to subject matter in the Humanities, Information Literacy and Science and Social Science disciplines. Students will also address the cultural diversity of contemporary society.

Students in the general education program are advised to focus on writing and speech communication first. Students are then counseled to explore mathematical and other formal systems to develop abstract reasoning abilities and are encouraged to take a course in informational literacy. Finally, all students are required to have exposure to the natural sciences, the humanities, fine arts, language, and the social and behavioral sciences. Many of these courses include an examination of the human condition in a multicultural society.

The general education curriculum emphasizes communications, mathematics and sciences, humanities, arts, language, and social/behavioral sciences. Thus, the curriculum provides coherence to Associate level undergraduate education.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate critical thinking, reading and writing skills appropriate to lower-division college work.
- Demonstrate critical awareness of the major approaches, methods, assumptions, and applications of different academic disciplines.
- Employ college-level scientific and quantitative reasoning skills to appraise information and to solve problems.
- Demonstrate awareness of past and present human and cultural diversity.
- Access, evaluate and use information gathered through a variety of resources and technologies in developing research projects and presentations.

Degree Requirements

The general education curriculum furnishes students with the basic knowledge necessary to pursue any Associate level degree program. Students who fulfill the curriculum gain an interdisciplinary liberal arts framework geared toward problem solving. This emphasis promotes self-directed research in many academic areas that have traditionally been kept separate.

Diversity Requirement

The diversity component serves the general education program goal of increasing respect for, and awareness of, diverse peoples and cultures. A plus [+] after any course on the list of approved general education courses signifies a diversity-enriched course. Students must complete at least one diversity-enriched course in the general education program.

General Education Program Requirements

The general education program consists of a minimum of 34.5 quarter units. Of the 34.5 quarter units, students must complete at least 4.5 units in diversity-enriched coursework.

AREA A: ENGLISH COMMUNICATION

(Minimum 10.5 quarter units)

Category 1 Writing

(6 quarter units)

ENG 100 Effective College English I (3 quarter units)
Prerequisite: Satisfactory performance on Accuplacer

ENG 101 Effective College English II (3 quarter units)
Prerequisite: ENG 100

Category 2 Oral Communication

(4.5 quarter units)

COM 100 Intro to Mass Communication

COM 103 Public Speaking

COM 120 Intro to Interpersonal Comm

AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

(Minimum 4.5 quarter units)

MTH 204 Mathematics for Science
Prerequisite: MTH 12A and MTH 12B

MTH 209A Fundamentals of Mathematics I
Prerequisite: Placement Evaluation

MTH 210 Probability and Statistics
Prerequisite: Placement Evaluation

MTH 215 College Algebra & Trigonometry
Prerequisite: Placement Evaluation

MTH 216A College Algebra I (3 quarter units)
Prerequisite: Placement Evaluation

MTH 216B College Algebra II (3 quarter units)
Prerequisite: MTH 216A

MTH 220 Calculus I
Prerequisite: MTH 215 or Placement Evaluation

MTH 301 Fundamentals of Mathematics II
Prerequisite: MTH 209A

CSC 208 Calculus for Comp. Science I
Prerequisite: MTH 215

MNS 205 Intro to Quantitative Methods
Prerequisite: Placement Evaluation

BST 322 Intro to Biomedical Statistics

AREA C: INFORMATION LITERACY

(Minimum 4.5 quarter units)

ILR 260 Information Literacy
Prerequisite: ENG 100, and ENG 101

AREA D: ARTS AND HUMANITIES, AND LANGUAGE

(Minimum 4.5 quarter units)

ARB 100 Beginning Arabic I

ARB 101 Beginning Arabic II
Prerequisite: ARB 100

ARB 200 Intermediate Arabic I
Prerequisite: ARB 101

ARB 201 Intermediate Arabic II
Prerequisite: ARB 200

ART 100 Introduction to Art History
Prerequisite: ENG 100 and ENG 101

ART 200 Visual Arts

ASL 120 American Sign Language I

ASL 220 American Sign Language II
Prerequisite: ASL 120

ASL 320 American Sign Language III
Prerequisite: ASL 220

HIS 233* World Civilizations I
Prerequisite: ENG 100 and ENG 101

HIS 234* World Civilizations II
Prerequisite: ENG 100 and ENG 101

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| LIT 100 | Introduction to Literature <i>Prerequisite: ENG 100 and ENG 101</i> |
| LIT 345 | Mythology <i>Prerequisite: LIT 100</i> |
| MUS 100 | Fundamentals of Music |
| MUS 327+ | World Music <i>Prerequisite: ENG 100, and ENG 101</i> |
| PGM 101 | Philosophy of Coaching |
| PHL 100 | Introduction to Philosophy <i>Prerequisite: ENG 100, and ENG 101</i> |
| PHL 337 | Ethics <i>Prerequisite: ENG 100, and ENG 101</i> |
| SPN 100 | Beginning Spanish I |
| SPN 101 | Beginning Spanish II <i>Prerequisite: SPN 100</i> |
| SPN 200 | Intermediate Spanish I <i>Prerequisite: SPN 101</i> |
| THR 200 | Theater Arts |
| + Diversity Enriched Offering | |

*Minnesota residents must complete other Humanities classes to satisfy Minnesota degree standards.

AREA E: SOCIAL AND BEHAVIORAL SCIENCES (Minimum 4.5 quarter units)

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| COM 100 | Intro to Mass Communication |
| COM 220 | Media Literacy |
| COM 380+ | Democracy in the Info. Age <i>Prerequisite: ENG 100 and ENG 101</i> |
| ECO 203 | Principles of Microeconomics |
| ECO 204 | Principles of Macroeconomics |
| HIS 220A+ | United States History I <i>Prerequisite: ENG 100 and ENG 101</i> |
| HIS 220B+ | United States History II <i>Prerequisite: ENG 100 and ENG 101</i> |
| HIS 300 | Roots of Western Civilization <i>Prerequisite: ENG 100, and ENG 101</i> |
| PGM 100 | History of Sport |
| POL 100 | Introduction to Politics <i>Prerequisite: ENG 100 and ENG 101</i> |
| POL 201 | American Politics <i>Prerequisite: ENG 100 and ENG 101</i> |
| PSY 100 | Introduction to Psychology |
| SOC 100+ | Principles of Sociology <i>Prerequisite: ENG 100 and ENG 101</i> |
| SOC 260 | Cultural Anthropology <i>Prerequisite: ENG 100 and ENG 101</i> |
| SOC 350+ | Cultural Diversity <i>Prerequisite: ENG 100 and ENG 101</i> |
| + Diversity Enriched Offering | |

AREA F: PHYSICAL AND BIOLOGICAL SCIENCES (Minimum 6 quarter units [**Note:** One science lab is required])

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| BIO 100 | Survey of Bioscience |
| BIO 100A | Survey of Bioscience Lab (1.5 quarter units) <i>Prerequisite: BIO 100 for non-science majors (GE) or BIO 163 for science majors</i> |
| BIO 161 | General Biology 1 |

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| BIO 162 | General Biology 2 <i>Prerequisite: BIO 161</i> |
| BIO 201 | Human Anatomy & Physiol I <i>Recommended: Prior completion of: BIO 100, BIO 100A, CHE 101, CHE 101A or equivalent courses.</i> |
| BIO 201A | Human Anatomy & Physiol Lab I (1.5 quarter units) <i>Prerequisite: BIO 201</i> |
| BIO 202 | Human Anatomy & Physiol II <i>Recommended: Prior completion of: BIO 201 and BIO 201A, BIO 100 and BIO 100A, CHE 101 and CHE 101A or equivalent courses</i> |
| BIO 202A | Human Anatomy & Physiol Lab II (1.5 quarter units) <i>Prerequisite: BIO 202</i> |
| BIO 203 | Introductory Microbiology <i>Recommended: Prior completion of: BIO 201 and BIO 201A, BIO 202 and BIO 202A, BIO 100 and BIO 100A, CHE 101 and CHE 101A or equivalent courses</i> |
| BIO 203A | Introductory Microbiology Lab (1.5 quarter units) <i>Prerequisite: BIO 203</i> |
| CHE 101 | Introductory Chemistry <i>Recommended Preparation: MTH 204 or MTH 215 or MTH 216A and MTH 216B</i> |
| CHE 101A | Introductory Chemistry Lab (1.5 quarter units) <i>Prerequisite: CHE 101 or CHE 141 for science majors</i> |
| CHE 141 | General Chemistry 1 <i>Prerequisite: MTH 215 or equivalent, CHE 101</i> |
| CHE 142 | General Chemistry 2 <i>Prerequisite: CHE 141</i> |
| EES 103 | Fundamentals of Geology |
| EES 103A | Fundamentals of Geology Lab (1.5 quarter units) <i>Prerequisite: EES 103</i> |
| PHS 104 | Introductory Physics <i>Prerequisite: 2 years of high school algebra and MTH 204 or MTH 215 or MTH 216A and MTH 216B</i> |
| PHS 104A | Introductory Physics Lab (1.5 quarter units) <i>Prerequisite: PHS 104 or PHS 171 for science majors</i> |
| PHS 171 | General Physics 1 <i>Prerequisite: MTH215 or MTH216A and MTH216B</i> |
| PHS 172 | General Physics 2 <i>Prerequisite: PHS 171</i> |

Please Note: It is strongly recommended that students in the BIO 201 - 203A series complete this series in numerical sequence BIO 201 + 201A, 202 + 202A, 203 + 203A.

AREA G: LIFELONG LEARNING AND SELF DEVELOPMENT (Minimum 4.5 quarter units)

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| ART 250 | Self-Reflection via Visual Art <i>Recommended Preparation: ART 100, ART 200</i> |
| COH 100 | Personal Health |
| COH 201 | Integrative Health |
| COH 317 | Public Health Nutrition |
| COH 318 | Drug Use and Abuse |
| COH 319 | Human Sexuality |
| FFL 100 | Foundation to Academic Success |
| GLS 150 | Global Issues and Trends |
| NSG 280 | Human Lifecycle Development |

GENERAL EDUCATION FOR BACHELOR DEGREES

The general education program promotes the intellectual growth of all students in National University's undergraduate degree programs. The general education curriculum assumes that undergraduates will not concentrate on a major field of study until they have completed a thorough general education program that is writing-intensive and addresses the cultural diversity of contemporary society.

Students in the general education program are advised to focus on writing and speech communication first. Students are then counseled to explore mathematical and other formal systems to develop abstract reasoning abilities and are required to take a course in informational literacy and report writing. Finally, all students are required to have a significant exposure to the natural sciences, the humanities and fine arts, and the social and behavioral sciences and modern language. Many of these courses include an examination of the human condition in a multicultural society.

The general education curriculum emphasizes communications, mathematics and sciences, humanities and social/behavioral sciences. Thus, the curriculum provides coherence to undergraduate education, affording the student the opportunity to:

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate critical thinking, reading and writing skills appropriate to upper-division college work.
- Demonstrate critical awareness of the major approaches, methods, assumptions, and applications of different academic disciplines.
- Employ college-level scientific and quantitative reasoning skills to appraise information and to solve problems.
- Develop basic proficiency in another language.
- Demonstrate awareness of past and present human and cultural diversity.
- Access, evaluate and use information gathered through a variety of resources and technologies in developing research projects and presentations.

The general education curriculum furnishes students with the basic knowledge necessary to pursue any degree program. Students who fulfill the curriculum gain a strong interdisciplinary liberal arts framework geared toward problem solving. This emphasis promotes self-directed research in many academic areas that have traditionally been kept separate.

Diversity Requirement

The diversity component serves the general education program goal of increasing respect for, and awareness of, diverse peoples and cultures. A plus [+] after any course on the list of approved general education courses signifies a diversity-enriched course. Students must complete at least one diversity-enriched course in the general education program.

CSU General Education Certifications and IGETC

National University will accept the following General Education certifications: California State University (CSU) General Education Breadth Certification and the Inter-Segmental General Education Transfer Curriculum (IGETC). All requirements for CSU General Education and IGETC must be completed and certified prior to transfer to National University. The University will not accept partial certifications. Students transferring with full certifications are typically required to take one to three upper-division general education courses at National in order to fulfill the unit requirements. Students must provide an official transcript with the certification included or a separate certification form from the community college attended.

General Education Program Requirements

The general education program consists of a minimum of 70.5 quarter units. Of the 70.5 quarter units, students must complete at least 4.5 units at the upper-division level and 4.5 units in diversity enriched coursework. All undergraduate students working toward any associate or bachelor's degree must meet the University's diversity requirement. A maximum of 13.5 upper-division units may be utilized to meet general education requirements.

National University has general education requirements in the following areas:

AREA A: ENGLISH COMMUNICATION

(Minimum 15 quarter units)

Category 1: Writing

(10.5 quarter units required)

- ENG 100 Effective College English I (3 quarter units)
Prerequisite: Satisfactory performance on Accuplacer
- ENG 101 Effective College English II (3 quarter units)
Prerequisite: ENG 100
- ENG 240 Advanced Composition
Prerequisite: ENG 100, and ENG 101
- or
- ENG 334A Technical Writing
Prerequisite: ENG 100, and ENG 101, (Only Business, Engineering and Nursing majors may fulfill the requirement by taking ENG 334A)

Category 2: Oral Communication

(4.5 quarter units required)

- COM 101 Intro. to Oral Communication
- COM 103 Public Speaking
- COM 120 Intro to Interpersonal Comm

AREA B: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING

(Minimum 4.5 quarter units)

- MTH 204 Mathematics for Science
Prerequisite: MTH 12A and MTH 12B or Accuplacer test placement
- MTH 209A Fundamentals of Mathematics I
Prerequisite: Accuplacer test placement evaluation or MTH 12A and MTH 12B
- MTH 210 Probability and Statistics
Prerequisite: Accuplacer test placement evaluation or MTH 12A and MTH 12B
- MTH 215 College Algebra & Trigonometry
Prerequisite: Accuplacer test placement evaluation or MTH 12A and MTH 12B
- MTH 216A College Algebra I (3 quarter units)
Prerequisite: Accuplacer test placement evaluation or MTH 12A and MTH 12B
- MTH 216B College Algebra II (3 quarter units)
Prerequisite: MTH 216A
- MTH 220 Calculus I
Prerequisite: MTH 215 or Accuplacer test placement
- MTH 301 Fundamentals of Mathematics II
Prerequisite: MTH 209A or Accuplacer test placement evaluation
- CSC 208 Calculus for Comp. Science I
Prerequisite: MTH 215
- MNS 205 Intro to Quantitative Methods
Prerequisite: Placement Evaluation
- BST 322 Intro to Biomedical Statistics

AREA C: INFORMATION LITERACY

(Minimum 4.5 quarter units)

- ILR 260 Information Literacy
Prerequisite: ENG 100 and ENG 101

AREA D: ARTS, HUMANITIES, AND LANGUAGES

(Minimum 18 quarter units in at least 2 areas)

ARTS

- ART 100 Introduction to Art History
Prerequisite: ENG 100 and ENG 101
- ART 200 Visual Arts
- MUS 100 Fundamentals of Music

MUS 327+ World Music
Prerequisite: ENG 100 and ENG 101

THR 200 Theater Arts

HUMANITIES

HIS 233* World Civilizations I
Prerequisite: ENG 100 and ENG 101

HIS 234* World Civilizations II
Prerequisite: ENG 100 and ENG 101

LIT 100 Introduction to Literature
Prerequisite: ENG 100 and ENG 101

LIT 345 Mythology
Prerequisite: LIT 100

PGM 101 Philosophy of Coaching

PHL 100 Introduction to Philosophy
Prerequisite: ENG 100, and ENG 101

PHL 337 Ethics
Prerequisite: ENG 100, and ENG 101

*Minnesota residents must complete other Humanities classes to satisfy Minnesota degree standards.

Languages

ARB 100 Beginning Arabic I

ARB 101 Beginning Arabic II
Prerequisite: ARB 100

ARB 200 Intermediate Arabic I
Prerequisite: ARB 101

ARB 201 Intermediate Arabic II
Prerequisite: ARB 200

ASL 120 American Sign Language I

ASL 220 American Sign Language II
Prerequisite: ASL 120

ASL 320 American Sign Language III
Prerequisite: ASL 220

SPN 100 Beginning Spanish I

SPN 101 Beginning Spanish II
Prerequisite: SPN 100

SPN 200 Intermediate Spanish I
Prerequisite: SPN 101

Students may also satisfy Area D Foreign Language requirements with 9 quarter units of computer languages:

CSC 242 Intro to Programming Concepts
Prerequisite: MTH 215

CSC 252 Programming in C++
Prerequisite: CSC 242

CSC 262 Programming in JAVA
Prerequisite: MTH 215

AREA E: SOCIAL AND BEHAVIORAL SCIENCES

(Minimum 13.5 quarter units)

COM 100 Intro to Mass Communication

COM 220 Media Literacy

COM 380+ Democracy in the Info. Age
Prerequisite: ENG 101 and ENG 100

ECO 203 Principles of Microeconomics

ECO 204 Principles of Macroeconomics

HIS 220A+ United States History I
Prerequisite: ENG 100, and ENG 101

HIS 220B+ United States History II
Prerequisite: ENG 100, and ENG 101

HIS 300 Roots of Western Civilization
Prerequisite: ENG 100, and ENG 101

PGM 100 History of Sport

POL 100 Introduction to Politics
Prerequisite: ENG 100 and ENG 101

POL 201 American Politics
Prerequisite: ENG 100 and ENG 101

PSY 100 Introduction to Psychology

SOC 100+ Principles of Sociology
Prerequisite: ENG 100 and ENG 101

SOC 260 Cultural Anthropology
Prerequisite: ENG 100 and ENG 101

SOC 350+ Cultural Diversity
Prerequisite: ENG 100 and ENG 101

AREA F: PHYSICAL AND BIOLOGICAL SCIENCES

(Minimum 6 quarter units required [Note: One science lab is required])

BIO 100 Survey of Bioscience

BIO 100A Survey of Bioscience Lab (1.5 quarter units)
Prerequisite: BIO 100 for non-science majors (GE) or BIO 163 for science majors

BIO 161 General Biology 1

BIO 162 General Biology 2
Prerequisite: BIO 161

BIO 201 Human Anatomy & Physiol I
Recommended: Prior completion of: BIO 100, BIO 100A, CHE 101, CHE 101A or equivalent courses.

BIO 201A Human Anatomy & Physiol Lab I (1.5 quarter units)
Prerequisite: BIO 201

BIO 202 Human Anatomy & Physiol II
Recommended: Prior completion of: BIO 201 and BIO 201A, BIO 100 and BIO 100A, CHE 101 and CHE 101A or equivalent courses

BIO 202A Human Anatomy & Physiol Lab II (1.5 quarter units)
Prerequisite: BIO 202

BIO 203 Introductory Microbiology
Recommended: Prior completion of: BIO 201 and BIO 201A, BIO 202 and BIO 202A, BIO 100 and BIO 100A, CHE 101 and CHE 101A or equivalent courses

BIO 203A Introductory Microbiology Lab (1.5 quarter units)
Prerequisite: BIO 203

CHE 101 Introductory Chemistry
Recommended Preparation: MTH 204 or MTH 215 or MTH 216A and MTH 216B

CHE 101A Introductory Chemistry Lab (1.5 quarter units)
Prerequisite: CHE 101 or CHE 141 for science majors

CHE 141 General Chemistry 1
Prerequisite: MTH 215 or equivalent, CHE 101

CHE 142 General Chemistry 2
Prerequisite: CHE 141

EES 103 Fundamentals of Geology

EES 103A Fundamentals of Geology Lab (1.5 quarter units)
Prerequisite: EES 103

PHS 104 Introductory Physics
Prerequisite: 2 years of high school algebra, and MTH 204, or MTH 215, or MTH 216A and MTH 216B

PHS 104A Introductory Physics Lab (1.5 quarter units)
Prerequisite: PHS 104 or PHS 171 for science majors

- PHS 171 General Physics 1
Prerequisite: MTH215 or MTH216A and MTH216B
- PHS 172 General Physics 2
Prerequisite: PHS 171

AREA G: LIFELONG LEARNING AND SELF DEVELOPMENT

(Minimum 4.5 quarter units)

- ART 250 Self-Reflection via Visual Art
Recommended Preparation: ART 100, ART 200
- COH 100 Personal Health
- COH 201 Integrative Health
- COH 317 Public Health Nutrition
- COH 318 Drug Use and Abuse
- COH 319 Human Sexuality
- FFL 100 Foundation to Academic Success
- GLS 150 Global Issues and Trends
- NSG 280 Human Lifecycle Development

AREA A-G: GENERAL EDUCATION

(Minimum 4.5 quarter units)

If a student has not met the upper-division unit requirement in the completion of the above general education areas, an upper-division course from the following list must be taken. (Upper-division courses applicable to General Education are numbered 300-399). If a student has already met the upper-division unit requirement in the completion of the above general education areas, any course below or any course in Areas A through G may satisfy this Area.

- ART 315 Film as Art
Prerequisite: ENG 100, ENG 101
- ART 329+ World Art
Prerequisite: ENG 100, ENG 101
- BRO 210 History of Television
Prerequisite: ENG 100, ENG 101, and COM 100 or COM 103
- COM 360+ Representation in the Media
Prerequisite: ENG 100 and ENG 101
- COM 380+ Democracy in the Info. Age
Prerequisite: ENG 101 and ENG 100
- EES 301 Earth & Planetary Sciences
- EES 322 Oceanography
- EES 335 Environmental Science
- ENG 375 Nature Writing
Prerequisite: ENG 100 and ENG 101
- HIS 300 Roots of Western Civilization
Prerequisite: ENG 100 and ENG 101
- LIT 311 British Literature I
Prerequisite: LIT 100 and ENG 240
- LIT 312 British Literature II
Prerequisite: LIT 100 and ENG 240
- LIT 321 American Literature I
Prerequisite: LIT 100 and ENG 240
- LIT 322 American Literature II
Prerequisite: LIT 100 and ENG 240
- MUS 326+ American Music
Prerequisite: ENG 100 and ENG 101
- PHL 320+ World Religions
Prerequisite: ENG 100 and ENG 101
- PHL 332 Religion of Islam
Prerequisite: ENG 100 and ENG 101

- PHL 375 Environmental Ethics
Prerequisite: ENG 100 and ENG 101
- PHS 102 Survey of Physical Science
- PSY 300 Social Psychology of Sport
Prerequisite: ENG 100, ENG 101, PSY 100
- PSY 301 Child Development
Prerequisite: ENG 100 and ENG 101
- SCI 300+ Geography
- SOC 325 Popular Culture
Prerequisite: ENG 100 and ENG 101
- SOC 327 Arab Culture
Prerequisite: ENG 100 and ENG 101
- SOC 336+ American Film and Society
Prerequisite: ENG 100 and ENG 101
- SOC 344 Marriage, Sex and the Family
Prerequisite: ENG 100 and ENG 101
- SOC 350+ Cultural Diversity
Prerequisite: ENG 100 and ENG 101
- SOC 352 Modern Chinese Culture
Prerequisite: ENG 100 and ENG 101

+ Diversity Enriched Offering

Remedial courses taken to achieve minimum levels of collegiate-level competency in the areas of writing and mathematical concepts and systems do not satisfy any portion of the general education requirement.