

# Learning Outcomes

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Learning outcomes are statements that describe the knowledge, skills, and attitudes that graduates will achieve after successfully completing a learning experience or program.

UMSL's fundamental purpose is to educate and graduate diverse students as they seek different and better lives. Our academic programs emphasize student growth through research, internship opportunities, and one-on-one attention. Our award-winning faculty propels many of our academic programs to be ranked among the best in the nation.

This web page links you to the expected student learning outcomes for each academic program at UMSL. To see the expected learning outcomes for any academic program, select the college and then the department and program and the institutional outcomes are below.

## UMSL Institutional Outcomes

### Critical Thinking

#### Engagement, Inclusion, Innovation, Success, Trust

UMSL Graduates will integrate multiple perspectives when using reason, evidence, and context to formulate questions, increase knowledge and reason effectively and ethically.

### Creative Thinking

#### Engagement, Inclusion, Innovation, Success

UMSL graduates will create new and worthwhile ideas, work creatively with others, and demonstrate originality and inventiveness in creative work and research.

### Communication

#### Engagement, Inclusion, Innovation, Success

Graduates will be able to communicate effectively and engage with others constructively across contexts in oral, written, visual and electronic formats.

### Diversity

#### Access, Engagement, Inclusion, Innovation, Success

UMSL Graduates will understand and have the ability to view individual and social behavior/society from a variety of perspectives, recognize and respect difference, and conceptualize and critically articulate the complexities of difference and experience.

### Information Literacy

#### Engagement, Inclusion, Innovation, Success

UMSL Graduates will be able to access, critically examine, and responsibly use written, oral, visual, and numerical information to be informed citizens in the interconnected global community.

## Integrative Thinking

### Engagement, Inclusion, Innovation, Success, Trust

UMSL Graduates will promote community engagement or civic action to benefit the public good and integrate relevant experience, breadth of study, and focused disciplinary expertise to strengthen personal and professional growth.

## Quantitative Analysis

### Engagement, Inclusion, Innovation, Success

UMSL Graduates will demonstrate critical thinking and quantitative reasoning skills and the use of symbolic systems to understand aspects of the properties and relationships of relevant quantifiable concepts of academic disciplines and everyday life.

## Learning Outcomes, College of Arts & Sciences

### Actuarial Science

- Bachelor of Science

### Actuarial Studies

- Undergraduate Certificate

### African American and African Diaspora Studies

- Undergraduate Certificate

### Anthropology

- Bachelor of Science

### Biochemistry & Biotechnology

- Bachelor of Science

### Biology

- Bachelor of Arts
- Bachelor of Science
- Biology Minor
- Environmental Studies Minor

### Chemistry

- Bachelor of Arts
- Bachelor of Science
- Chemistry Minor
- Master of Science
- Biochemistry Graduate Certificate

### Communication

- Bachelor of Arts
  - Applied Visual Communication Emphasis
  - Interpersonal Communication Emphasis
  - Mass Communication Emphasis
  - Strategic Communication Emphasis
- Heath Communication Certificate

- Media Production Certificate
- Public Relations Certificate

#### Computer Science

- Bachelor of Science
- Computer Science Minor
- Cybersecurity Undergraduate Certificate
- Cybersecurity Graduate Certificate
- Data Science Undergraduate Certificate
- Internet and Web Undergraduate Certificate
- Mobile Apps and Computing Undergraduate Certificate

#### Computing Technology

- Bachelor of Science

#### Criminology and Criminal Justice

- Bachelor of Science
- Master of Arts
- Doctor of Philosophy
- Criminology and Criminal Justice Minor

#### Cybersecurity

- Bachelor of Science
  - Computer Science Emphasis
- Cybersecurity Certificate

#### Data Science

- Bachelor of Science
  - Biology Emphasis
  - Computer Science Emphasis
  - Economics Emphasis
  - Mathematics Emphasis
  - Social Science Emphasis
  - Supply Chain Analytics Emphasis

#### Economics

- Bachelor of Arts
- Bachelor of Science
- Master of Arts
  - Business Economics Emphasis
- Economics Minor
- Applied Econometrics and Data Analysis Certificate

#### English

- Bachelor of Arts
- English Minor
- Creative Writing Certificate
- Professional Writing Certificate

#### Gender Studies

- Graduate Certificate

#### Gerontology

- Gerontology Minor

#### Gerontological Studies

- Undergraduate Certificate

#### History

- Bachelor of Arts
- Master of Arts
  - Museums Heritage and Public History Emphasis
- African American and African Diaspora Studies Undergraduate Certificate
- LatinX Studies Minor

#### Interdisciplinary Programs

- Bachelor of Interdisciplinary Studies
- Entrepreneurship Certificate
- Child Advocacy Studies Minor
- Child Advocacy Studies Certificate
- Labor Studies Certificate

#### International Relations

- Bachelor of Arts

#### Mathematics

- Bachelor of Arts
- Bachelor of Science
  - Data Science Emphasis
  - Fiscal Mathematics Emphasis
- Mathematics Minor
- Statistics Minor

#### Modern Languages

- Bachelor of Arts
  - French Emphasis
  - Japanese Emphasis
  - Spanish Emphasis
- French Minor
- Japanese Minor
- Spanish Minor

#### Music

- Bachelor of Arts
- Bachelor of Music
  - Elective Studies in Business Emphasis
  - Jazz Studies Emphasis
  - Music Composition Emphasis
  - Music Education Emphasis
  - Music Theory Emphasis
  - Performance Emphasis

#### Philosophy

- Bachelor of Arts
- Master of Arts
- Minor in Philosophy

- Minor in Law and Philosophy
- Bioethics Graduate Certificate

#### Physics and Astronomy

- Bachelor of Arts
- Bachelor of Science
  - General Physics Option
  - Astrophysics Option
  - Engineering Physics Option
  - Biophysics Option
- Physics Minor

#### Political Science

- Bachelor of Arts
- Political Science Minor
- American Politics Minor
- Gender and Politics Minor
- International and Comparative Politics Minor
- Nonprofit Administration Minor
- Public Law Minor
- Public Policy Minor
- Urban Politics Minor

#### Public Policy and Administration

- Bachelor of Science

#### Psychology

- Bachelor of Arts
- Bachelor of Science
- Psychology Minor
- Trauma Studies Certificate
- Workplace and Organizational Science Certificate
- Neuroscience Certificate

#### Sociology

- Bachelor of Arts
- Bachelor of Science
- Sociology Minor

#### Studio Art

- Bachelor of Fine Arts
  - Art Education Emphasis
  - Graphic Design Emphasis
  - Studio Practice Emphasis

## Learning Outcomes, College of Business

#### Accounting

- BS Accounting
- Master of Accounting
- Post Baccalaureate Certificate
- Accounting Minor
- Auditing Graduate Certificate

#### Business Administration

- BS Business Administration
  - General
  - Entrepreneurship Emphasis
  - Finance Emphasis
  - Information Systems and Technology Emphasis
  - International Business Emphasis
  - Supply Chain Management Emphasis
  - Management Emphasis
  - Marketing Emphasis
- Master of Business Administration
  - General
  - Accounting Emphasis
  - Business Analytics Emphasis
  - Finance Emphasis
  - Information Systems Emphasis
  - International Business Emphasis
  - Supply Chain Management Emphasis
  - Management Emphasis
  - Marketing Emphasis
- Doctor of Business Administration
- Business Administration Graduate Certificate
- Business Intelligence Graduate Certificate

#### Cybersecurity

- BS Cybersecurity
  - Information Systems Emphasis
- MS Cybersecurity
  - Information Systems Emphasis
- Cybersecurity Minor
- Cybersecurity Undergraduate Certificate
- Cybersecurity Graduate Certificate

#### Entrepreneurship

- Entrepreneurship Undergraduate Certificate

#### Finance

- Finance Minor

#### Information Systems

- BS Information Systems and Technology
- MS Information Systems and Technology
- Enterprise Systems Development Graduate Certificate

#### Management

- Talent Management Graduate Certificate
- International Business Minor
- Management Minor

#### Marketing

- Digital Marketing Communications Minor
- Marketing Minor
- Digital and Social Media Marketing Graduate Certificate

#### Supply Chain and Analytics

- Supply Chain Management Minor
- Transportation Studies Minor
- Logistics and Supply Chain Management Graduate Certificate

### Learning Outcomes, College of Education

#### Counseling

- Master of Education
  - Clinical and Mental Health Counseling
  - School Counseling

#### Education

- Doctor of Education
  - Educational Practice
- Doctor of Philosophy
  - Counseling
  - Educational Leadership and Policy Studies
  - Educational Psychology
  - Teaching and Learning Processes

#### Education Administration

- Master of Education
  - School Administration
- Educational Specialist

#### Educational Studies

- Bachelor of Educational Studies
  - Early Childhood
  - Exercise Science and Wellness
  - Park and Museum Programs
  - Social Entrepreneurship
  - Youth and Adult Development

#### Elementary Education

- Bachelor of Science in Education
  - Middle School Education
  - Special Education and Teaching English to Speakers of Other Languages (TESOL)
  - Special Education
  - Teaching English to Speakers of Other Languages (TESOL)
- Elementary and Special Education Graduate Certificate
- Elementary School Teaching Graduate Certificate

#### Higher Education

- Master of Education
  - Higher Education
- College Access, Student Success and Student Services Leadership Graduate Certificate

#### School Psychology

- Educational Specialist

#### Secondary Education

- Bachelor of Science in Education
  - English
  - Mathematics
  - Modern Language - French
  - Modern Language - Spanish
  - Science - Biology
  - Science - Chemistry
  - Science - Physics
  - Social Studies

#### Special Education

- Master of Education
  - Behavior Principles and Interventions Emphasis
  - Inclusive Education Emphasis
  - Transition Studies Emphasis

#### Sport Management

- Bachelor of Science
- STEM Teaching Graduate Certificate
- Teaching English to Speakers of Other Languages Graduate Certificate
- Teaching of Writing Graduate Certificate

### Learning Outcomes, UMSL/Washington University Joint Undergraduate Engineering Program

#### Civil Engineering BSCIE

#### Electrical Engineering BSEE

#### Mechanical Engineering BSME

### Learning Outcomes, College of Nursing

#### Bachelor of Science in Nursing

#### Doctor of Nursing Practice

Acute Care Pediatric Nurse Practitioner Emphasis  
Adult-Gerontology Nurse Practitioner Emphasis  
Family Nurse Practitioner Emphasis  
Leadership in Population Health and Healthcare Systems Emphasis  
Primary Pediatric Nurse Practitioner Emphasis  
Psychiatric Mental Health Nurse Practitioner Emphasis  
Women's Health Nurse Practitioner Emphasis

#### Ph.D. in Nursing

### Learning Outcomes, School of Social Work

#### Bachelor of Social Work

#### Master of Social Work

## **Learning Outcomes, Pierre Laclède Honors College**

- Two-Year Certificate
- Four-Year Certificate