Learning Outcomes

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

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

Adult and Higher Education

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

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

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 Laclede Honors College

- Two-Year Certificate
- Four-Year Certficate