

# UB Exploratory Tracks & Majors Exploration Worksheet



**Remember to think broadly about majors!** Many majors prepare students for similar careers, work environments, and graduate or preprofessional schools, such as [medicine](#) and [law](#).  
**Some majors are applicable in more than one track.** Choosing one track does not mean you cannot explore majors or courses from another track.

Look at the tracks, majors and concentrations below.  
Circle the track and top 5 majors you are most interested in learning more about.

## Track 1



### Computer, Engineering, Mathematics & Natural Sciences Track

*Student Strengths:*

*Mathematics, Sciences and Analytical Ability*

#### COMPUTER SCIENCE/ENGINEERING

Aerospace Engineering - BS  
Biomedical Engineering - BS  
Chemical Engineering - BS  
Civil Engineering - BS  
Computer Engineering - BS  
Computer Science - BA, BS  
Electrical Engineering - BS  
Engineering Physics - BS  
Environmental Engineering - BS  
Industrial Engineering - BS  
Mechanical Engineering - BS  
Mechanical and Aerospace Engineering Double Major - BS

#### MATHEMATICS/NATURAL SCIENCES

Bioinformatics and Computational Biology - BS  
Biological Sciences Concentration  
Computer Science & Engineering Concentration  
Biological Sciences - BA, BS  
Cellular and Molecular Biology BS Concentration  
Ecology and Evolutionary Biology BS Concentration  
Neuroscience BS Concentration  
Pre-Health Studies BS Concentration  
Chemistry - BA, BS  
Computational Physics - BS  
Environmental Geosciences - BS  
Geological Sciences - BA, BS  
Mathematical Physics - BS  
Mathematics - BA, BS  
Actuarial Science Concentration  
Computing & Applied Mathematics Concentration  
General Curriculum Concentration  
General Study in Applied Mathematics Concentration  
General Study in Mathematics Concentration  
General Study in Mathematics and Education Concentration  
Mathematics-Economics - BA  
Medicinal Chemistry - BS  
Physics - BA, BS  
Teaching of Science Physics and Chemistry Concentration  
Teaching of Science Physics Concentration  
Statistics - BA

## Track 2



### Arts, Music & Design Track

*Student Strengths:*

*Communicating Conceptual Ideas Visually,  
through Performance, Sound or Designing Physical  
Environments*

#### ARCHITECTURE & PLANNING

Architecture - BS  
Environmental Design - BA

#### ARTS

Art History - BA  
Dance - BA, BFA  
Film Studies - BA  
Fine Arts - BFA  
Emerging Practices Concentration  
General Studio Concentration  
Graphic Design Concentration  
Painting Concentration  
Photography Concentration  
Print Media Concentration  
Sculpture Concentration  
Media Study - BA  
Critical Studies Concentration  
Production Concentration

Music - BA  
Music Performance - MusB  
Music Theatre - BFA  
Studio Art - BA  
General Studio Concentration  
Graphic Design Concentration  
Photography Concentration  
Theatre - BA  
Theatre - BFA  
Design/Technology Concentration  
Performance Concentration

**NOTE: UB offers SPECIAL STUDIES - BA, BS ...**  
*The possibility to create your own individualized major.*

## Track 3



### Health & Laboratory Sciences Track

*Student Strengths:*

*Mathematics, Sciences, Laboratory Sciences and  
Analytical Ability*

#### HEALTH AND LAB SCIENCES

Biochemistry - BS  
Biomedical Sciences - BS  
Biotechnology - BS  
Exercise Science - BS  
Applied Exercise Physiology Track  
Prehealth Track  
Pre-Physical Therapy Track  
Health Promotion Track  
Medical Technology - BS  
Nuclear Medicine Technology - BS  
Nursing (Traditional Nursing Program) - BS  
Nursing (Accelerated) - BS (not a major)  
Occupational Science/Occupational Therapy - BS/MS (not a major)  
Pharmaceutical Sciences - BS  
Pharmacology and Toxicology - BS  
Pharmacy - PharmD (not a major)  
Physical Therapy - DPT (not a major)  
Public Health - BS

## Track 4



### Humanities, Cultures & Languages Track

*Student Strengths:*

*Written and Oral Communication, Comprehension,  
Critical Thinking, Research and Analyzing*

#### HUMANITIES

African-American Studies - BA  
American Studies - BA  
Asian Studies - BA  
Classics - BA  
Ancient Greek Language & Literatures Concentration  
Ancient History Concentration  
Ancient Latin Language & Literatures Concentration  
Classical Civilizations Concentration  
Mediterranean Archeology Concentration  
English - BA  
French - BA  
German - BA  
German Language and Linguistics Concentration  
Global Gender Studies - BA  
History - BA  
Italian - BA  
Jewish Studies - BA  
Philosophy - BA  
Spanish - BA

## Track 5



### Social & Behavioral Sciences Track

*Student Strengths: Written and Oral Communication, Global  
Perspective and Cross-Cultural Understanding, Mathematical,  
Statistical and Computer Methods to Analyze and Interpret Data*

#### SOCIAL SCIENCES

Accounting - BS  
Anthropology - BA  
Business Administration - BS  
Data Analytics Concentration  
Financial Analysis Concentration  
General Management Concentration  
Human Resources Management Concentration  
International Business Concentration  
Management Information Systems Concentration  
Marketing Concentration  
Operations and Supply Chain Management Concentration  
Communication - BA  
Economics - BA  
Geographic Information Science - BS  
Geography - BA  
Earth Systems Science Concentration  
Urban and Regional Analysis Concentration  
International Trade - BA  
Linguistics - BA  
Applied Linguistics Concentration  
Chinese Language and Linguistics Concentration  
Honors Language and Cognition Concentration  
Honors Language Structure and Theory Concentration  
Japanese Language and Linguistics Concentration  
Korean Language and Linguistics Concentration  
Language and Cognition Concentration  
Language, Society and Communication Concentration  
Political Science - BA  
Advanced Concentration  
American Politics and Public Affairs Concentration  
Comparative Politics Concentration  
General Concentration  
International Politics Concentration  
Public Law Concentration  
Psychology - BA, BS  
Social Sciences Interdisciplinary - BA, BS  
Cognitive Science Concentration  
Environmental Studies Concentration  
Environmental Policy and Education Specialized Track  
Environmental Resources and Management Specialized Track  
Health & Human Services Concentration  
Community Mental Health Concentration  
Early Childhood Concentration  
Social Gerontology Concentration  
International Studies Concentration  
Legal Studies Concentration  
Urban and Public Policy Studies Concentration  
Sociology - BA  
Criminology Concentration  
Crime, Law & Justice Specialization (for majors only)  
Global Sociology Specialization (for majors only)  
Health & Society Specialization (for majors only)  
Speech and Hearing Science - BA

**Further information on UB majors**, including *Finish in 4 Curricular Plans* to ensure timely acceptance to a major by no later than 60 credits completed, visit the [Undergraduate Degree & Course Catalog](https://catalog.buffalo.edu) - <https://catalog.buffalo.edu>.

# Approved Minors & Other Programs

## MINORS

African-American Studies  
 American Studies  
 Anthropology, Department of:  
     Archeology  
     Cultural Anthropology  
     General Anthropology  
     Medical Anthropology  
     Physical Anthropology  
 Architecture & Planning, School of:  
     Architecture  
     Environmental Design  
 Art History  
 Asian Studies  
 Biological Sciences  
     Biotechnology (for students majoring in Chemical Engineering)  
 Chemistry  
 Chinese  
 Classics, Department of:  
     Ancient Greek Language and Literature  
     Ancient History  
     Ancient Latin Language and Literature  
     Classical Civilization  
     Mediterranean Archeology  
 Communication  
 Counseling  
 Economics  
 Educational Leadership and Policy for Equity  
 Education  
 Engineering and Applied Sciences, School of:  
     Computer Science  
     Electrical Engineering  
     Human Factors and Ergonomics Engineering  
     Manufacturing  
     Operations Research  
     Quality Engineering  
     Robotics  
 English, Department of:  
     English  
     Global Film Studies  
 French  
 Geography, Department of:  
     Earth Systems Science  
     General Geography  
     Geographic Information Systems and Cartography  
     International Business and World Trade  
     Urban and Regional Analysis  
 Geological Sciences  
 German  
 Global Gender Studies  
 Health and Wellness  
 History  
 Information Studies  
 Italian  
 Japanese

## MINORS, CONT.

Jewish Studies  
 Korean  
 Latina/Latino Studies  
 Law  
 Linguistics  
 Management  
 Mathematics  
 Media Study  
 Medicinal Chemistry  
 Music, Department of:  
     Academic  
     Performance  
 Neuroscience  
 Nutrition  
 Pharmaceutical Sciences  
 Pharmacology and Toxicology  
 Philosophy  
 Physics  
 Polish Studies  
     Culture and Society Track  
     Language Track  
 Political Science  
 Psychology  
 Public Health  
 Social Sciences Interdisciplinary, Department of:  
     Environmental Studies  
 Sociology, Department of:  
     Criminology  
     Social Justice  
     Society, Medicine & Health  
     Sociology  
 Spanish  
 Speech & Hearing Science  
 Statistics  
 Studio Art  
 Theatre

## CERTIFICATE PROGRAMS

Certificate programs consist of a group of courses that focus on an area of specialized knowledge. They cannot be awarded without the completion of a Bachelor's degree at the University at Buffalo.

Creative Writing  
 Data Intensive Computing  
 Game Studies  
 Journalism

## MICRO-CREDENTIALS and DIGITAL BADGES

Micro-credentials are smaller than a minor, certificate or degree program. They equip learners with digital badges that showcase students' knowledge and skills relevant to their academic or professional goals. For a list of credit and non-credit micro-credentials and digital badges visit: [buffalo.edu/micro-credentials](http://buffalo.edu/micro-credentials).

## PRE-PROFESSIONAL SERVICES

Admission into professional schools generally requires an undergraduate (Bachelor's) degree in any field of study. The prehealth and pre-law advisors educate students on how to properly prepare and assist students with the application process.  
**Prehealth** - Pre-Chiropractic, Pre-Dental, Pre-Medical, Pre-Optometry, Pre-Physician Assistant, Pre-Podiatry and Pre-Veterinary  
**Pre-Law**

## COMBINED DEGREES, 4+1, 3+3 and 3+2 PROGRAMS

Combined degrees, 4+1, 3+3 and 3+2 programs offer students the opportunity to pursue their educational objectives at an accelerated pace and are designed for students who have demonstrated exceptional promise. Some combined undergraduate and graduate degree programs result in the awarding of a single combined degree that joins specific programs or disciplines from two degree levels. Also, some combined degrees will not qualify students for licensure if licensure is based upon the complete undergraduate curriculum. The 4+1, 3+3 and 3+2 programs award a 4-year undergraduate degree and a graduate degree.

Biological Sciences - BA/MS  
 Biological Sciences/Dentistry - BS/DDS  
 Biological Sciences/Pharmacy - BS/PharmD  
 Biomedical Engineering - BS/MS  
 Biomedical Sciences/Pharmacy - BS/PharmD  
 Business Administration - BS/MBA  
 Chemical Engineering/Business Administration - BS/MBA  
 Chemistry/Pharmacy - BA/PharmD  
 Civil Engineering/Business Administration - BS/MBA  
 Computational Physics/Physics - BS/MS  
 Computer Science - BS/MS  
 Economics - BA/MA, BA/MS  
 Electrical Engineering/Business Administration - BS/MBA  
 English - BA/MA  
 Exercise Science - BS/MS  
 Exercise Science/Athletic Training - BS/MS  
 Exercise Science/Public Health in Epidemiology - BS/MPH  
 Exercise Science/Nutrition - BS/MS  
 Geography - BA/MA  
 Geological Sciences - BA/MA  
 Industrial Engineering/Business Administration - BS/MBA  
 Mathematics - BA/MA  
 Mechanical Engineering/Business Administration - BS/MBA  
 Medicinal Chemistry - BS/MS  
 Occupational Science/Occupational Therapy - BS/MS  
 Pharmaceutical Sciences - BS/MS  
 Pharmaceutical Sciences/Pharmacy - BS/PharmD  
 Pharmacology & Toxicology - BS/MS  
 Public Health - BS/MPH  
 Public Health (Biostatistics Concentration) - BS/MPH  
 Public Health (Community Health & Health Behavior Concentration) - BS/MPH  
 Public Health (Environmental Health Concentration) - BS/MPH  
 Public Health (Epidemiology Concentration) - BS/MPH  
 Public Health (Health Services Administration Concentration) - BS/MPH  
 Public Health Epidemiology - BS/MS  
 Public Health Community Health & Health Behavior - BS/MS  
 Social Sciences (Health & Human Services Concentration)/Social Work  
 Combined - BA/MSW  
 Sociology BA/MA (Applied Social Research)

**Law**  
 History + Law (3+3) - BA and JD  
 Philosophy + Law (3+3) - BA and JD  
 Political Science + Law (3+3) - BA and JD  
 Social Sciences (Legal Studies Concentration) + Law (3+3) - BA and JD  
 Sociology + Law (3+3) - BA and JD

**Management**  
 Accounting (4+1) - BS and MS  
 Business Administration (Financial Analysis Concentration) + Finance (4+1) - BS and MS  
 Business Administration (Management Information Systems Concentration) + Management Information Systems (4+1) - BS and MS  
 Business Administration (Operations and Supply Chain Mgmt Concentration) + Operations and Supply Chain Mgmt (4+1) - BS and MS

**UB Teach**  
 Biological Sciences + Biology Education: Adolescence (3+2) - BA and EdM  
 Chemistry + Chemistry Education: Adolescence (3+2) - BA and EdM  
 Classics + Latin Education: Adolescence (3+2) - BA and EdM  
 English + English Education: Adolescence (3+2) - BA and EdM  
 Geological Sciences + Earth Science Education: Adolescence (3+2) - BA and EdM  
 History + Social Studies Education: Adolescence (3+2) - BA and EdM  
 Mathematics + Mathematics Education: Adolescence (3+2) - BA and EdM

Exploratory and Pre-Professional Advising Center  
 109 Norton Hall | 716-645-6013 | [exploratory-advising.buffalo.edu](http://exploratory-advising.buffalo.edu)

