

# LETTERS AND SCIENCE (COLLEGE OF)

---

The College of Letters and Science is the largest academic unit of the University of Wisconsin-Milwaukee. Study of the liberal arts and sciences provides a broad base of knowledge and an array of skills cited by employers as critical to professional success, even more than the major: critical thinking, problem solving, oral and written communication, ability to work well with others, and adaptability to change.

## Departments and Programs

- African and African Diaspora Studies (<https://catalog.uwm.edu/letters-science/african-diaspora-studies/>)
  - African and African Diaspora Studies, BA (<https://catalog.uwm.edu/letters-science/african-diaspora-studies/african-diaspora-studies-ba/>)
  - African and African Diaspora Studies, MA (<https://catalog.uwm.edu/letters-science/african-diaspora-studies/african-diaspora-studies-ma/>)
  - African and African Diaspora Studies, Minor (<https://catalog.uwm.edu/letters-science/african-diaspora-studies/african-diaspora-studies-minor/>)
  - African and African Diaspora Studies, PhD (<https://catalog.uwm.edu/letters-science/african-diaspora-studies/african-diaspora-studies-phd/>)
- American Indian Studies (<https://catalog.uwm.edu/letters-science/american-indian-studies/>)
  - American Indian Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/american-indian-studies/american-indian-studies-undergraduate-certificate/>)
- Ancient and Modern Languages, Literatures, and Cultures (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/>)
  - Arabic, Minor (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/arabic-minor/>)
  - Business German, Minor (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/business-german-minor/>)
  - Chinese, Minor (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/chinese-minor/>)
  - Classics, BA (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/classics-ba/>)
  - Classics, Minor (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/classics-minor/>)
  - Committee Interdisciplinary Major, BA: Chinese Language and Culture (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/chinese-language-culture-ba/>)
  - Committee Interdisciplinary Major, BA: Japanese Language and Culture (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/japanese-language-culture-ba/>)
  - German, BA (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/german-ba/>)
  - German, Minor (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/german-minor/>)
- Japanese, Minor (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/japanese-minor/>)
- Korean Studies, Minor (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/korean-studies-minor/>)
- Russian and East European Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/russian-east-european-studies-undergraduate-certificate/>)
- Russian, BA (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/russian-ba/>)
- Russian, Minor (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/russian-minor/>)
- Anthropology (<https://catalog.uwm.edu/letters-science/anthropology/>)
  - Anthropology, BA (<https://catalog.uwm.edu/letters-science/anthropology/anthropology-ba/>)
  - Anthropology, Minor (<https://catalog.uwm.edu/letters-science/anthropology/anthropology-minor/>)
  - Anthropology, MS (<https://catalog.uwm.edu/letters-science/anthropology/anthropology-ms/>)
  - Anthropology, MS/Library and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/anthropology/anthropology-ms-library-information-science-mlis/>)
  - Anthropology, PhD (<https://catalog.uwm.edu/letters-science/anthropology/anthropology-phd/>)
- Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (<https://catalog.uwm.edu/letters-science/anthropology/death-investigation-undergraduate-certificate/>)
- Digital Cultures, Graduate Certificate (<https://catalog.uwm.edu/letters-science/anthropology/digital-cultures-graduate-certificate/>)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (<https://catalog.uwm.edu/letters-science/anthropology/forensic-science-undergraduate-certificate/>)
- Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (<https://catalog.uwm.edu/letters-science/anthropology/forensic-toxicology-undergraduate-certificate/>)
- Museum Studies, Graduate Certificate (<https://catalog.uwm.edu/letters-science/anthropology/museum-studies-graduate-certificate/>)
- Art History (<https://catalog.uwm.edu/letters-science/art-history/>)
  - Art History, BA (<https://catalog.uwm.edu/letters-science/art-history/art-history-ba/>)
  - Art History, MA (<https://catalog.uwm.edu/letters-science/art-history/art-history-ma/>)
  - Art History, MA/Library and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/art-history/art-history-ma-library-information-science-mlis/>)
  - Art History, Minor (<https://catalog.uwm.edu/letters-science/art-history/art-history-minor/>)
- Asian Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/asian-studies-undergraduate-certificate/>)
- Biological Sciences (<https://catalog.uwm.edu/letters-science/biological-sciences/>)

- Biological Sciences, BA (<https://catalog.uwm.edu/letters-science/biological-sciences/biological-sciences-ba/>)
- Biological Sciences, BS (<https://catalog.uwm.edu/letters-science/biological-sciences/biological-sciences-bs/>)
- Biological Sciences, Minor (<https://catalog.uwm.edu/letters-science/biological-sciences/biological-sciences-minor/>)
- Biological Sciences, MS (<https://catalog.uwm.edu/letters-science/biological-sciences/biological-sciences-ms/>)
- Biological Sciences, PhD (<https://catalog.uwm.edu/letters-science/biological-sciences/biological-sciences-phd/>)
- Microbiology, BS (<https://catalog.uwm.edu/letters-science/biological-sciences/microbiology-bs/>)
- Neuroscience, BS (Department of Biological Sciences) (<https://catalog.uwm.edu/letters-science/biological-sciences/neuroscience-bs/>)
- Business and Technical Communications, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/business-technical-communications-undergraduate-certificate/>)
- Celtic Studies (<https://catalog.uwm.edu/letters-science/celtic-studies/>)
  - Celtic Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/celtic-studies/celtic-studies-undergraduate-certificate/>)
- Chemistry and Biochemistry (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/>)
  - Biochemistry, BA (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/biochemistry-ba/>)
  - Biochemistry, BS (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/biochemistry-bs/>)
  - Chemistry, BA (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/chemistry-ba/>)
  - Chemistry, BS (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/chemistry-bs/>)
  - Chemistry, Minor (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/chemistry-minor/>)
  - Chemistry, MS (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/chemistry-ms/>)
  - Chemistry, PhD (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/chemistry-phd/>)
- Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/death-investigation-undergraduate-certificate/>)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/forensic-science-undergraduate-certificate/>)
- Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (<https://catalog.uwm.edu/letters-science/chemistry-biochemistry/forensic-toxicology-undergraduate-certificate/>)
- Childhood and Adolescence Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/childhood-adolescence-studies-undergraduate-certificate/>)
- Committee Interdisciplinary Major, BA/BS (<https://catalog.uwm.edu/letters-science/committee-interdisciplinary-major/>)
- Communication (<https://catalog.uwm.edu/letters-science/communication/>)
  - Communication, BA (<https://catalog.uwm.edu/letters-science/communication/communication-ba/>)
  - Communication, MA (<https://catalog.uwm.edu/letters-science/communication/communication-ma/>)
  - Communication, MA: Rhetorical Leadership (<https://catalog.uwm.edu/letters-science/communication/communication-rhetorical-leadership-ma/>)
  - Communication, Minor (<https://catalog.uwm.edu/letters-science/communication/communication-minor/>)
  - Communication, PhD (<https://catalog.uwm.edu/letters-science/communication/communication-phd/>)
  - Communication, PhD: Rhetorical Leadership (<https://catalog.uwm.edu/letters-science/communication/communication-rhetorical-leadership-phd/>)
  - Mediation and Negotiation, Graduate Certificate (<https://catalog.uwm.edu/letters-science/communication/mediation-negotiation-graduate-certificate/>)
  - Rhetorical Leadership, Graduate Certificate (<https://catalog.uwm.edu/letters-science/communication/rhetorical-leadership-graduate-certificate/>)
- Conservation and Environmental Science (<https://catalog.uwm.edu/letters-science/conservation-environmental-science/>)
  - Conservation and Environmental Science, Minor (<https://catalog.uwm.edu/letters-science/conservation-environmental-science/conservation-environmental-science-minor/>)
  - Conservation and Environmental Sciences, BA (<https://catalog.uwm.edu/letters-science/conservation-environmental-science/conservation-environmental-science-ba/>)
  - Conservation and Environmental Sciences, BS (<https://catalog.uwm.edu/letters-science/conservation-environmental-science/conservation-environmental-science-bs/>)
- Cultures and Communities, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/cultures-communities-undergraduate-certificate/>)
- Data Analytics, BS (College of Letters and Science) (<https://catalog.uwm.edu/letters-science/data-analytics-bs/>)
- Digital Arts and Culture (<https://catalog.uwm.edu/letters-science/digital-arts-culture/>)
  - Digital Arts and Culture, BA (<https://catalog.uwm.edu/letters-science/digital-arts-culture/digital-arts-culture-ba/>)
  - Digital Arts and Culture, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/digital-arts-culture/digital-arts-culture-undergraduate-certificate/>)
- Economics (<https://catalog.uwm.edu/letters-science/economics/>)
  - Applied Econometrics and Data Analysis, Graduate Certificate (<https://catalog.uwm.edu/letters-science/economics/applied-econometrics-data-analysis-graduate-certificate/>)
  - Economics, BA (<https://catalog.uwm.edu/letters-science/economics/economics-ba/>)
  - Economics, MA (<https://catalog.uwm.edu/letters-science/economics/economics-ma/>)
  - Economics, Minor (<https://catalog.uwm.edu/letters-science/economics/economics-minor/>)
  - Economics, PhD (<https://catalog.uwm.edu/letters-science/economics/economics-phd/>)
- English (<https://catalog.uwm.edu/letters-science/english/>)
  - English, BA (<https://catalog.uwm.edu/letters-science/english/english-ba/>)

- English, MA (<https://catalog.uwm.edu/letters-science/english/english-ma/>)
- English, MA/Library and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/english/english-ma-library-information-science-mlis/>)
- English, Minor (<https://catalog.uwm.edu/letters-science/english/english-minor/>)
- English, PhD (<https://catalog.uwm.edu/letters-science/english/english-phd/>)
- English, Writing, Editing, and Publishing Minor (<https://catalog.uwm.edu/letters-science/english/english-writing-editing-publishing-minor/>)
- English for Academic Purposes (<https://catalog.uwm.edu/letters-science/english-as-second-language/>)
- Ethnic Studies (<https://catalog.uwm.edu/letters-science/ethnic-studies/>)
  - Committee Interdisciplinary Major, BA: Comparative Ethnic Studies (<https://catalog.uwm.edu/letters-science/ethnic-studies/comparative-ethnic-studies-ba/>)
  - Comparative Ethnic Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/ethnic-studies/comparative-ethnic-studies-undergraduate-certificate/>)
  - Hmong Diaspora Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/ethnic-studies/hmong-diaspora-studies-undergraduate-certificate/>)
- Film Studies (<https://catalog.uwm.edu/letters-science/film-studies/>)
  - Business of Media and Film Studies, Undergraduate Certificate (College of Letters and Science, Department of Film Studies) (<https://catalog.uwm.edu/letters-science/film-studies/business-media-film-studies-undergraduate-certificate/>)
  - Film Studies, BA (<https://catalog.uwm.edu/letters-science/film-studies/film-studies-ba/>)
  - Film Studies, Minor (<https://catalog.uwm.edu/letters-science/film-studies/film-studies-minor/>)
- General Letters, BA (<https://catalog.uwm.edu/letters-science/general-letters-ba/>)
- Geography (<https://catalog.uwm.edu/letters-science/geography/>)
  - Geographic Information Science, Minor (<https://catalog.uwm.edu/letters-science/geography/geographic-information-science-minor/>)
  - Geographic Information Systems, Graduate Certificate (College of Letters and Science) (<https://catalog.uwm.edu/letters-science/geography/geographic-information-systems-graduate-certificate/>)
  - Geography, BA (<https://catalog.uwm.edu/letters-science/geography/geography-ba/>)
  - Geography, BS (<https://catalog.uwm.edu/letters-science/geography/geography-bs/>)
  - Geography, MA (<https://catalog.uwm.edu/letters-science/geography/geography-ma/>)
  - Geography, MA/Library and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/geography/geography-ma-library-information-science-mlis/>)
  - Geography, Minor (<https://catalog.uwm.edu/letters-science/geography/geography-minor/>)
  - Geography, MS (<https://catalog.uwm.edu/letters-science/geography/geography-ms/>)
  - Geography, PhD (<https://catalog.uwm.edu/letters-science/geography/geography-phd/>)
- Geosciences (<https://catalog.uwm.edu/letters-science/geosciences/>)
  - Geosciences, BA (<https://catalog.uwm.edu/letters-science/geosciences/geosciences-ba/>)
  - Geosciences, BS (<https://catalog.uwm.edu/letters-science/geosciences/geosciences-bs/>)
  - Geosciences, Minor (<https://catalog.uwm.edu/letters-science/geosciences/geosciences-minor/>)
  - Geosciences, MS (<https://catalog.uwm.edu/letters-science/geosciences/geosciences-ms/>)
  - Geosciences, PhD (<https://catalog.uwm.edu/letters-science/geosciences/geosciences-phd/>)
- Global Health, Undergraduate Certificate (College of Letters and Science) (<https://catalog.uwm.edu/letters-science/global-health-undergraduate-certificate/>)
- Global Studies (<https://catalog.uwm.edu/letters-science/global-studies/>)
  - Comparative Literature, BA (<https://catalog.uwm.edu/letters-science/global-studies/comparative-literature-ba/>)
  - Comparative Literature, Minor (<https://catalog.uwm.edu/letters-science/global-studies/comparative-literature-minor/>)
  - French, BA (<https://catalog.uwm.edu/letters-science/global-studies/french-ba/>)
  - French, Minor (<https://catalog.uwm.edu/letters-science/global-studies/french-minor/>)
  - Global Studies, BA (<https://catalog.uwm.edu/letters-science/global-studies/global-studies-ba/>)
  - Global Studies, Minor (<https://catalog.uwm.edu/letters-science/global-studies/global-studies-minor/>)
  - Italian, BA (<https://catalog.uwm.edu/letters-science/global-studies/italian-ba/>)
  - Italian, Minor (<https://catalog.uwm.edu/letters-science/global-studies/italian-minor/>)
- History (<https://catalog.uwm.edu/letters-science/history/>)
  - History, BA (<https://catalog.uwm.edu/letters-science/history/history-ba/>)
  - History, MA (<https://catalog.uwm.edu/letters-science/history/history-ma/>)
  - History, MA/Library and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/history/history-ma-library-information-science-mlis/>)
  - History, MA: Public History (<https://catalog.uwm.edu/letters-science/history/history-public-ma/>)
  - History, Minor (<https://catalog.uwm.edu/letters-science/history/history-minor/>)
  - History, PhD (<https://catalog.uwm.edu/letters-science/history/history-phd/>)
- Human Resources and Labor Relations (<https://catalog.uwm.edu/letters-science/human-resources-labor-relations/>)
  - Human Resources and Labor Relations, MHRLR (College of Letters and Science) (<https://catalog.uwm.edu/letters-science/human-resources-labor-relations/human-resources-labor-relations-mhrlr/>)
  - International Human Resources and Labor Relations, Graduate Certificate (<https://catalog.uwm.edu/letters-science/human->

- resources-labor-relations/international-human-resources-labor-relations-graduate-certificate/)
- International Studies (<https://catalog.uwm.edu/letters-science/international-studies/>)
  - International Studies, BA (<https://catalog.uwm.edu/letters-science/international-studies/international-studies-ba/>)
  - International Studies, Minor (<https://catalog.uwm.edu/letters-science/international-studies/international-studies-minor/>)
- Jewish Studies (<https://catalog.uwm.edu/letters-science/jewish-studies/>)
  - Holocaust, Genocide, and Human Rights Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/jewish-studies/holocaust-genocide-human-rights-studies-undergraduate-certificate/>)
  - Jewish Studies, BA (<https://catalog.uwm.edu/letters-science/jewish-studies/jewish-studies-ba/>)
  - Jewish Studies, Minor (<https://catalog.uwm.edu/letters-science/jewish-studies/jewish-studies-minor/>)
- Journalism, Advertising, and Media Studies (<https://catalog.uwm.edu/letters-science/journalism-advertising-media-studies/>)
  - Journalism, Advertising, and Media Studies, BA (<https://catalog.uwm.edu/letters-science/journalism-advertising-media-studies/journalism-advertising-media-studies-ba/>)
  - Journalism, Advertising, and Media Studies, Minor (<https://catalog.uwm.edu/letters-science/journalism-advertising-media-studies/journalism-advertising-media-studies-minor/>)
  - Media Studies, MA (<https://catalog.uwm.edu/letters-science/journalism-advertising-media-studies/media-studies-ma/>)
- Language, Literature & Translation (<https://catalog.uwm.edu/letters-science/language-literature-translation/>)
  - Language, Literature, and Translation, MA (<https://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-ma/>)
  - Language, Literature, and Translation, MA/Library and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-ma-library-information-science-mlis/>)
  - Language, Literature, and Translation, MA: Comparative Literature (<https://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-comparative-literature-ma/>)
  - Language, Literature, and Translation, MA: French and Francophone Language, Literature, and Culture (<https://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-french-francophone-culture-ma/>)
  - Language, Literature, and Translation, MA: German Language, Literature, and Culture (<https://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-german-culture-ma/>)
  - Language, Literature, and Translation, MA: Interpreting (<https://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-interpreting-ma/>)
  - Language, Literature, and Translation, MA: Linguistics (<https://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-linguistics-ma/>)
  - Language, Literature, and Translation, MA: Spanish and Hispanophone Language, Literature, and Culture (<https://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-spanish-hispanophone-culture-ma/>)
- Language, Literature, and Translation, MA: Translation (<https://catalog.uwm.edu/letters-science/language-literature-translation/language-literature-translation-translation-ma/>)
- Latin American and Caribbean Studies (<https://catalog.uwm.edu/letters-science/latin-american-caribbean-studies/>)
  - Latin American and Caribbean Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/latin-american-caribbean-studies/latin-american-caribbean-studies-undergraduate-certificate/>)
- Latin American, Caribbean, and U.S. Latinx Studies (<https://catalog.uwm.edu/letters-science/latin-american-caribbean-us-latinx-studies/>)
  - Latin American, Caribbean, and U.S. Latinx Studies, BA (<https://catalog.uwm.edu/letters-science/latin-american-caribbean-us-latinx-studies/latin-american-caribbean-us-latinx-studies-ba/>)
- Latinx Studies (<https://catalog.uwm.edu/letters-science/latinx-studies/>)
  - Latinx Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/latinx-studies/latinx-studies-undergraduate-certificate/>)
- Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies (<https://catalog.uwm.edu/letters-science/lesbian-gay-bisexual-transgender-lgbt-studies/>)
  - Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/lesbian-gay-bisexual-transgender-lgbt-studies/lesbian-gay-bisexual-transgender-lgbt-studies-undergraduate-certificate/>)
- Linguistics (<https://catalog.uwm.edu/letters-science/linguistics/>)
  - Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate (<https://catalog.uwm.edu/letters-science/linguistics/teaching-speakers-other-languages-adult-university-level-graduate-certificate/>)
  - Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/linguistics/adult-university-level-teaching-english-speakers-other-languages-undergraduate-certificate/>)
  - Linguistics, BA (<https://catalog.uwm.edu/letters-science/linguistics/linguistics-ba/>)
  - Linguistics, MA (<https://catalog.uwm.edu/letters-science/linguistics/linguistics-ma/>)
  - Linguistics, Minor (<https://catalog.uwm.edu/letters-science/linguistics/linguistics-minor/>)
  - Linguistics, PhD (<https://catalog.uwm.edu/letters-science/linguistics/linguistics-phd/>)
  - Teaching of English to Speakers of Other Languages and Applied Linguistics, MA (<https://catalog.uwm.edu/letters-science/linguistics/teaching-english-speakers-other-languages-applied-linguistics-ma/>)
- Mathematical Sciences (<https://catalog.uwm.edu/letters-science/mathematical-sciences/>)
  - Actuarial Science, BA (<https://catalog.uwm.edu/letters-science/mathematical-sciences/actuarial-science-ba/>)
  - Actuarial Science, Minor (<https://catalog.uwm.edu/letters-science/mathematical-sciences/actuarial-science-minor/>)
  - Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematical Sciences) (<https://catalog.uwm.edu/letters-science/mathematical-sciences/applied-math-computer-science-bs/>)

- catalog.uwm.edu/letters-science/mathematical-sciences/applied-math-computer-science-bs/)
  - Data Science, BS (College of Letters and Science, Department of Mathematical Sciences) (<https://catalog.uwm.edu/letters-science/mathematical-sciences/data-science-bs/>)
  - Mathematics, BA (<https://catalog.uwm.edu/letters-science/mathematical-sciences/mathematics-ba/>)
  - Mathematics, BS (<https://catalog.uwm.edu/letters-science/mathematical-sciences/mathematics-bs/>)
  - Mathematics, Minor (<https://catalog.uwm.edu/letters-science/mathematical-sciences/mathematics-minor/>)
  - Mathematics, MS (<https://catalog.uwm.edu/letters-science/mathematical-sciences/mathematics-ms/>)
  - Mathematics, MS: Actuarial Science (<https://catalog.uwm.edu/letters-science/mathematical-sciences/mathematics-actuarial-science-ms/>)
  - Mathematics, MS: Statistics (<https://catalog.uwm.edu/letters-science/mathematical-sciences/mathematics-statistics-ms/>)
  - Mathematics, PhD (<https://catalog.uwm.edu/letters-science/mathematical-sciences/mathematics-phd/>)
- Middle Eastern and North African Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/middle-eastern-north-african-studies-undergraduate-certificate/>)
- Philosophy (<https://catalog.uwm.edu/letters-science/philosophy/>)
  - Ethics, Values, and Society (CEVS), Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/philosophy/ethics-values-society-undergraduate-certificate/>)
  - Philosophy, BA (<https://catalog.uwm.edu/letters-science/philosophy/philosophy-ba/>)
  - Philosophy, MA (<https://catalog.uwm.edu/letters-science/philosophy/philosophy-ma/>)
  - Philosophy, Minor (<https://catalog.uwm.edu/letters-science/philosophy/philosophy-minor/>)
- Physics (<https://catalog.uwm.edu/letters-science/physics/>)
  - Physics, BS (<https://catalog.uwm.edu/letters-science/physics/physics-bs/>)
  - Physics, Minor (<https://catalog.uwm.edu/letters-science/physics/physics-minor/>)
  - Physics, MS (<https://catalog.uwm.edu/letters-science/physics/physics-ms/>)
  - Physics, PhD (<https://catalog.uwm.edu/letters-science/physics/physics-phd/>)
- Political Science (<https://catalog.uwm.edu/letters-science/political-science/>)
  - Political Science, BA (<https://catalog.uwm.edu/letters-science/political-science/political-science-ba/>)
  - Political Science, MA (<https://catalog.uwm.edu/letters-science/political-science/political-science-ma/>)
  - Political Science, Minor (<https://catalog.uwm.edu/letters-science/political-science/political-science-minor/>)
  - Political Science, PhD (<https://catalog.uwm.edu/letters-science/political-science/political-science-phd/>)
- Pre-Professional Programs (<https://catalog.uwm.edu/letters-science/pre-professional-programs/>)
  - Other Pre-Professional Health Study (<https://catalog.uwm.edu/letters-science/pre-professional-programs/other-pre-professional-health-study/>)
  - Pre-Anesthesiologist Assistant (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-anesthesiologist-assistant/>)
  - Pre-Chiropractic (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-chiropractic/>)
  - Pre-Dentistry (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-dentistry/>)
  - Pre-Law (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-law/>)
  - Pre-Medicine (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-medicine/>)
  - Pre-Optometry (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-optometry/>)
  - Pre-Pathologist Assistant (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-pathologist-assistant/>)
  - Pre-Pharmacy (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-pharmacy/>)
  - Pre-Physician Assistant (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-physician-assistant/>)
  - Pre-Podiatry (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-podiatry/>)
  - Pre-Veterinary Medicine (<https://catalog.uwm.edu/letters-science/pre-professional-programs/pre-veterinary-medicine/>)
- Psychology (<https://catalog.uwm.edu/letters-science/psychology/>)
  - Neuroscience, BS (Department of Psychology) (<https://catalog.uwm.edu/letters-science/psychology/neuroscience-bs/>)
  - Psychology, BA (<https://catalog.uwm.edu/letters-science/psychology/psychology-ba/>)
  - Psychology, BS (<https://catalog.uwm.edu/letters-science/psychology/psychology-bs/>)
  - Psychology, Minor (<https://catalog.uwm.edu/letters-science/psychology/psychology-minor/>)
  - Psychology, MS (<https://catalog.uwm.edu/letters-science/psychology/psychology-ms/>)
  - Psychology, PhD (<https://catalog.uwm.edu/letters-science/psychology/psychology-phd/>)
- Public and Non-Profit Administration (<https://catalog.uwm.edu/letters-science/public-nonprofit-administration/>)
  - Nonprofit Management and Leadership, MS (College of Letters and Science, Department of Public and Nonprofit Administration) (<https://catalog.uwm.edu/letters-science/public-nonprofit-administration/nonprofit-management-leadership-ms/>)
  - Nonprofit Management, Graduate Certificate (College of Letters and Science, Department of Public and Nonprofit Administration) (<https://catalog.uwm.edu/letters-science/public-nonprofit-administration/nonprofit-management-graduate-certificate/>)
  - Public Administration, MPA (College of Letters and Science, Department of Public and Nonprofit Administration) (<https://catalog.uwm.edu/letters-science/public-nonprofit-administration/public-administration-mpa/>)
  - Public Administration, MPA/Criminal Justice and Criminology, MS (<https://catalog.uwm.edu/letters-science/public-nonprofit-administration/public-administration-mpa-criminal-justice-ms/>)
  - Public Administration, MPA/Urban Planning, MUP (<https://catalog.uwm.edu/letters-science/public-nonprofit-administration/public-administration-urban-planning-mpa-mup-coordinated-degree-program/>)

- Quantitative Social Data Analysis, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/quantitative-social-data-analysis-undergraduate-certificate/>)
- Religious Studies (<https://catalog.uwm.edu/letters-science/religious-studies/>)
  - Religious Studies, BA (<https://catalog.uwm.edu/letters-science/religious-studies/religious-studies-ba/>)
  - Religious Studies, Minor (<https://catalog.uwm.edu/letters-science/religious-studies/religious-studies-minor/>)
- Sociology (<https://catalog.uwm.edu/letters-science/sociology/>)
  - Sociology, BA (<https://catalog.uwm.edu/letters-science/sociology/sociology-ba/>)
  - Sociology, MA (<https://catalog.uwm.edu/letters-science/sociology/sociology-ma/>)
  - Sociology, Minor (<https://catalog.uwm.edu/letters-science/sociology/sociology-minor/>)
  - Sociology, PhD (<https://catalog.uwm.edu/letters-science/sociology/sociology-phd/>)
- Spanish and Portuguese (<https://catalog.uwm.edu/letters-science/spanish-portuguese/>)
  - Business Spanish, Minor (<https://catalog.uwm.edu/letters-science/spanish-portuguese/business-spanish-minor/>)
  - Portuguese, Minor (<https://catalog.uwm.edu/letters-science/spanish-portuguese/portuguese-minor/>)
  - Spanish for Health Professionals, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/spanish-portuguese/spanish-health-professionals-undergraduate-certificate/>)
  - Spanish, BA (<https://catalog.uwm.edu/letters-science/spanish-portuguese/spanish-ba/>)
  - Spanish, MA (<https://catalog.uwm.edu/letters-science/spanish-portuguese/spanish-ma/>)
  - Spanish, Minor (<https://catalog.uwm.edu/letters-science/spanish-portuguese/spanish-minor/>)
- Translation and Interpreting Studies (<https://catalog.uwm.edu/letters-science/translation-interpreting-studies/>)
  - Interpreting, Graduate Certificate (<https://catalog.uwm.edu/letters-science/translation-interpreting-studies/interpreting-graduate-certificate/>)
  - Translation and Interpreting Studies, MA (<https://catalog.uwm.edu/letters-science/translation-interpreting-studies/translation-interpreting-studies-ma/>)
  - Translation and Interpreting Studies, MA/Business Administration, MBA (<https://catalog.uwm.edu/letters-science/translation-interpreting-studies/translation-interpreting-studies-ma-business-administration-mba/>)
  - Translation and Interpreting Studies, MA/Library and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/translation-interpreting-studies/translation-interpreting-studies-ma-library-information-science-mlis/>)
  - Translation, Graduate Certificate (<https://catalog.uwm.edu/letters-science/translation-interpreting-studies/translation-graduate-certificate/>)
- Urban Studies (<https://catalog.uwm.edu/letters-science/urban-studies/>)
  - Urban Studies, BA (<https://catalog.uwm.edu/letters-science/urban-studies/urban-studies-ba/>)
  - Urban Studies, MS (<https://catalog.uwm.edu/letters-science/urban-studies/urban-studies-ms/>)
  - Urban Studies, MS/Library and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/urban-studies/urban-studies-ms-library-information-science-mlis/>)
  - Urban Studies, PhD (<https://catalog.uwm.edu/letters-science/urban-studies/urban-studies-phd/>)
  - Urban Studies, Undergraduate Certificate (<https://catalog.uwm.edu/letters-science/urban-studies/urban-studies-undergraduate-certificate/>)
- Women's and Gender Studies (<https://catalog.uwm.edu/letters-science/womens-gender-studies/>)
  - Women's and Gender Studies, BA (<https://catalog.uwm.edu/letters-science/womens-gender-studies/womens-gender-studies-ba/>)
  - Women's and Gender Studies, Graduate Certificate (<https://catalog.uwm.edu/letters-science/womens-gender-studies/womens-gender-studies-graduate-certificate/>)
  - Women's and Gender Studies, MA (<https://catalog.uwm.edu/letters-science/womens-gender-studies/womens-gender-studies-ma/>)
  - Women's and Gender Studies, MA/Library and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/womens-gender-studies/womens-gender-studies-ma-library-information-science-mlis/>)
  - Women's and Gender Studies, MA/Social Work, MSW (<https://catalog.uwm.edu/letters-science/womens-gender-studies/womens-gender-studies-ma-social-work-msw/>)
  - Women's and Gender Studies, Minor (<https://catalog.uwm.edu/letters-science/womens-gender-studies/womens-gender-studies-minor/>)

## Requirements

The degree requirements in the College of Letters and Science build on the University General Education Requirements to provide a broad base of knowledge as well as an array of skills cited by employers as critical to professional success: critical thinking, problem solving, oral and written communication, ability to work well with others, and adaptability to change.

For both the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.), you must complete the English Composition requirement, the Math and Formal Reasoning requirement, the Breadth requirement, the International requirement, and the Research requirement. The Breadth requirement (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>) ensures that you take classes in a wide variety of subjects, across humanities, natural sciences, and social sciences. The International requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) develops your potential for cross-cultural understanding in a globalizing world. The Research requirement (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>) calls for you to build your critical thinking and oral and written communication skills through conducting an independent research project, usually in your major.

For the Bachelor of Arts (B.A.) you will also complete the Language other than English requirement, to further develop your understanding of cultures through language.

For the Bachelor of Science (B.S.) you will complete additional coursework in Advanced Natural Science (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>).

Below are the details of the degree requirements in the College of Letters and Science.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6

### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College



requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://uwm.edu/letters-science/advising/degree-requirements/advanced-natural-science-approved-courses-list/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	

MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (At least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		
<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.		
<b>College of Letters &amp; Science Requirements</b>		
<b>I. English Composition Requirement</b>		
Students must satisfy the English Composition Requirement with one of the following options:		
1) Completing ENGLISH 102 with a grade of C or higher; or		
2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or		
3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.		
<b>Note:</b> This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.		
<b>II. Mathematics and Formal Reasoning</b>		
To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:		
1. Complete one of the following courses or an equivalent course:		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
MATH 211	Survey in Calculus and Analytic Geometry I	4

MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is **NOT** the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
9		
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a

2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Courses Approved for the L&S Breadth Requirement (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>)

Courses Approved for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>)

Courses Approved for the L&S Research Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>)

Courses Approved for the L&S Advanced Natural Science Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>)

## Graduate Policies and Regulations

The Graduate School policies and regulations can be found at Graduate School Policies (<https://catalog.uwm.edu/policies/graduate-policies/>). Please refer to the specific program for program policies and regulations.

## Undergraduate Policies and Regulations

### Semester Course Load (UWM Policy)

Students in Letters and Science may carry a maximum of 18 credits in a regular semester. In extraordinary circumstances, an overload may be granted to a student with a high GPA who has no outstanding incompletes. Students should contact their Letters and Science advisor for instructions on requesting an overload. Additional fees are assessed for credits beyond 18.

### Bachelors of Arts and Bachelors of Science Degree Requirements (Letters & Science Policy)

Specific degree requirements for the Bachelor of Arts and Bachelor of Sciences degrees are listed on the individual pages for those majors.

Students are cautioned to meet with their advisor(s) regularly to ensure they understand all requirements they need to complete in order to graduate, including major requirements, UWM general education requirements, Letters and Science breadth requirements, and Letters and Science degree requirements. Students should not rely on pre-printed sample plans as those are intended as samples only and may not apply to every student's exact circumstances.

### Declaration of an Intended Major (Letters & Science Policy)

Students who are not yet eligible to declare a major formally may declare an intended major in an academic discipline of interest to them. The declaration of an intended major is encouraged as soon as a student finds they are interested in a particular area. This action permits the department to identify students to whom to send information concerning programs, scholarships, opportunities (e.g., internships), and other matters relating to the area of study. Students may declare an intended major by completing a brief form available online ([http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Intended\\_Major\\_Form.pdf](http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Intended_Major_Form.pdf)) or from the L&S Advising Office (HLT 142).

### Declaration of a Major (Letters & Science Policy)

Students must declare a major by contacting the appropriate academic department or program. Specific information on how to declare a major can be found on that program's web site. Failure to declare the major before 75 credits have been earned may result in a delay of graduation. Some departments or programs specify course and/or GPA requirements that students must satisfy prior to declaring the major.

### Major GPA Requirement (Letters & Science Policy)

The College requires that students attain at least a 2.0 GPA in all credits in the major, including courses attempted at UWM and courses taken elsewhere and transferred to UWM. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other than the home department. Contact your major faculty advisor for information on whether those credits will count as part of the major GPA.

### Cumulative GPA Requirement (UWM Policy)

To be eligible for a bachelor's degree, students must attain a cumulative GPA of 2.0 on all credits that count toward a degree, including any transfer work.

### Major and Minor Residency Requirement (Letters & Science Policy)

The College requires that students complete at least 15 credits of their major in upper-division (numbered 300 or above) courses at UWM in order to earn that major from UWM.

The College requires that students complete at least 9 credits of their minor in upper-division (numbered 300 or above) courses at UWM in order to earn that minor from UWM.

### Degree Residency Requirements (Letters & Science Policy)

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires students to:

1. Take the last 30 credits of their program at UWM, or
2. Take 45 of the last 60 credits at UWM, or
3. Take at least 90 of the 120 credits needed for a degree at UWM

Credits earned through credit-by-examination, retroactive credit in foreign languages, and the College Level Examination Program do not count toward residency, but they also do not interrupt residency.

### Transfer Credit Limitations and Requirements (Letters & Science Policy)

Students who transfer to UWM from a UW two-year college, Milwaukee Area Technical College, Madison Area Technical College, or Nicolet Technical College may transfer up to 72 credits taken at a two-year school.

Students who transfer to UWM from a junior college outside Wisconsin must earn the final 48 credits at UWM or in another bachelor's-degree-granting college or university in accord with the requirements stated above.

### Research Requirement (Letters & Science policy)

Within their major, students must complete a research experience approved by the L&S Faculty.

## Major Requirements (Letters & Science policy)

To complete a major, students must satisfy all the requirements of the major as stated in the department or program entry in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## Minors (Letters & Science Policy)

The completion of a minor is optional. The College requires that students attain at least a 2.0 GPA in all credits in the minor, including courses attempted at UWM and any courses taken elsewhere and transferred to UWM for the minor. Individual departments may require higher GPAs for graduation. Students must complete at least 9 credits of upper-division (numbered 300 or above) courses in the minor at UWM in order to earn the minor from UWM.

## Minimum Number of Cumulative Credits (UWM Policy)

To complete a bachelor's degree, 120 degree credits are required.

## Other Credit Requirements and Limitations, Bachelor of Arts (Letters & Science Policy)

For the Bachelor of Arts degree, as part of the 120 total credits needed, students must complete at least 36 credits in upper-division (numbered 300 or above) courses offered by the College of Letters and Science.

### Limitations:

- At least 90 credits of the 120 total credits must be completed in courses offered by the College of Letters and Science, allowing students to take as electives up to 30 credits in courses offered by other schools and colleges at UWM. There is no limit to the number of credits that may be taken in one department.
- No more than 6 credits from a single course outside the College may be counted toward the degree.
- A maximum of 12 credits in military science courses may be counted toward the degree as non-L&S electives.
- No more than 6 credits of field experience taken outside the College may be counted toward the degree.
- No more than 6 credits in sport and recreation courses may be counted toward the degree.
- No "life experience" credits may be counted toward the degree.

## Other Credit Requirements and Limitations, Bachelor of Science (Letters & Science Policy)

For the Bachelor of Science degree, as part of the 120 total credits needed, students must complete at least 36 credits in upper-division courses (numbered 300 or above) offered by the College of Letters and Science. At least 30 of these 36 credits must be from natural science curricular areas or other courses approved as advanced natural sciences (<http://uwm.edu/letters-science/advising/degree-requirements/ls-degree-requirements-fall-2013-current/fall-2013-bachelor-of-science-bs-degree-requirements/advanced-natural-science-approved-courses-list/>).

### Limitations:

- At least 90 credits of the 120 total credits must be completed in courses offered by the College of Letters and Science, allowing students to take as electives up to 30 credits in courses offered by other schools and colleges at UWM. There is no limit to the number of credits that may be taken in one department.

- No more than 6 credits from a single course outside the College may be counted toward the degree.
- A maximum of 12 credits in military science courses may be counted toward the degree as non-L&S electives.
- No more than 6 credits of field experience taken outside the College may be counted toward the degree.
- No more than 6 credits in sport and recreation courses may be counted toward the degree.
- No "life experience" credits may be counted toward the degree.

## Eligibility for Prior Degree Requirements (Letters & Science Policy)

A student who declares their major within five years of entering the UW System as a degree candidate at any campus may choose to satisfy the requirements in force at the time of the declaration of major. Alternatively, a student may choose to satisfy any set of requirements that was in place at any time since they first entered the UW System as a degree-seeking student. Students are advised to consult with their advisor to determine whether an earlier set of requirements would be more advantageous.

Similarly, returning students who have been out of school for a long amount of time, should consult their advisor about which set of requirements may apply and which would be the best path for their specific circumstances.

## Second Baccalaureate Degree Requirements (Letters & Science Policy)

Students who already hold a bachelor's degree from another university, or from UWM but any school or college other than L&S, can earn a second baccalaureate degree by satisfying all current requirements for that undergraduate degree in the College of Letters and Science.

Students who have been awarded a Bachelor of Arts by the UWM College of Letters and Science are not eligible for a second BA degree from L&S. Those who have earned a UWM Bachelor of Science in L&S are not eligible for a second L&S BS degree. Instead, students in this situation can add a postbaccalaureate major which will be certified on a UWM transcript.

The university wide general education requirements are assumed to be satisfied, but students must still fulfill these L&S-specific requirements:

- Math Proficiency
- Formal Reasoning
- English Proficiency
- International Requirement
- L&S Breadth Requirement
- L&S World Languages Requirement
- L&S in-residence Upper-division courses Requirement
- For the BS, the L&S Advanced Natural Sciences Requirement

Coursework previously completed, whether at UWM or elsewhere, may be used to satisfy requirements for the second bachelor's degree. Students must complete a minimum of 30 credits at UWM after the date upon which the first degree was awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed at UWM. Of these 30 credits, at least 24 must be in courses offered through the College of Letters and Science. At least 20 of the 30 credits

must be in upper-division courses, numbered 300 or above. Students must satisfy the current requirements for the chosen major.

### **Post-Baccalaureate Second Major or Additional Major Requirements (Letters & Science Policy)**

Students who already hold a bachelor's degree from UWM or from another university who wish to add an additional major to their credentials can do so by completing only the requirements for that major. Students are not required to complete an entire second degree. Students who opt for this path will leave UWM with certification that they have completed an additional major that can then be listed on a resume along with their original degree (e.g. "Bachelor of Arts with a psychology major from the University of Illinois, with a second major in sociology from UWM").

All credit and grade point average requirements currently in effect for the selected major are enforced. This means that students must complete a minimum of 15 advanced credits (numbered 300 or above) at UWM, and they must complete the version of the major in effect at the time of declaration. Students participating in the program must provide transcripts of all prior non-UWM work. Those with a prior degree are admitted with senior standing. Completion of the major is certified by the major department and recorded on an official UWM transcript.

### **Changing Majors (UWM Policy)**

Current UWM students with a major outside of the College of Letters and Science who wish to change to a major within the College of Letters and Science, may do so at any time as long as they are in good academic standing (minimum 2.0 GPA). Complete this form ([http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Change\\_Of\\_Program\\_Form.pdf](http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Change_Of_Program_Form.pdf)), schedule an appointment with a Letters and Science advisor by calling (414) 229-4654, and bring the form to your appointment. Students should carefully note that degree requirements differ significantly between the different Schools and Colleges at UWM and a thorough discussion with an advisor is recommended before making this change, especially if the student is several years into their college career.

If you are not currently in good standing, you may still make an appointment with an advisor to discuss ways to raise your GPA and classes you can take prior to transferring into L&S.

### **Make a Program Change (Add, drop, withdraw, etc.) (Letters & Science Policy)**

Many changes can be made on a self-service basis directly in PAWS up to two weeks after the start of a class. After that point in time, students should consult the Letters and Science advising website (<http://uwm.edu/letters-science/advising/answers-forms/>) for instructions on how to make a program change; there are different instructions depending on how many weeks have past since the start of the semester.

### **Grade Appeal Policy (Letters & Science Policy)**

Students should review the Letters and Science policy for grievances and grade appeals (<http://uwm.edu/letters-science/advising/answers-forms/policies/appeal-procedure-for-grades/>).

### **Academic Probation and Academic Drop (UWM Policy)**

Students with a cumulative GPA below a 2.0 are placed on academic probation. While on academic probation, if the next semester's GPA remains below a 2.0, the student will be dropped for one semester. However, if the student's semester GPA is at least a 2.0 but the

cumulative GPA remains below a 2.0, the student may continue attending UWM on probation. The probation status will be removed when the cumulative GPA rises to a 2.0 or higher.

### **Return from Academic Drop (UWM Policy)**

Students may appeal to return after being dropped by contacting their advisor. Appeals will only be considered if significant and extenuating non-academic reasons can be presented. Students may be asked to provide verifiable documentation of medically-related or other circumstances.

A student who is allowed to return will be placed into a final probation status. A student who is on final probation who earns a semester GPA of at least 2.0 will be allowed to continue on final probation until the cumulative GPA rises above a 2.0. However, if a student fails to earn at least a 2.0 semester GPA, they will be dropped for two years.

### **Incomplete Policy (Letters & Science Policy)**

Students should review the Letters and Science policy for incompletes (<http://uwm.edu/letters-science/advising/answers-forms/policies/incomplete-policy/>).

### **Concurrent Enrollment (Letters & Science Policy)**

Students should review the Letters and Science concurrent enrollment (<http://uwm.edu/letters-science/advising/answers-forms/policies/concurrent-enrollment-policy/>). Concurrent enrollment refers to taking classes at both UWM and another university during the same semester. Permission is required for Fall and Spring concurrent enrollment; permission is not required to concurrently enroll in more than one university during the summer.

### **Repeat Policy (UWM Policy)**

Students should review UWM's policy on repeats (<https://catalog.uwm.edu/policies/undergraduate-policies/#repeatingcourses>).

## **Academic Advising and Admissions Advising**

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (<https://uwm.edu/letters-science/advising/contact-advising/>) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (<https://uwmilwaukee.campus.eab.com/>) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

## Undergraduate Opportunities

### Online Coursework and Online Majors

The College of Letters and Science offers a variety of coursework online or in a blended format (partially online and partially in-person). No distinction is made between an "online" student and an "in-person" student; students register for any combination of course formats that they wish to take. Almost all students choose to take at least one online class during their college career. All coursework is taught by the same faculty members and is of the same rigor whether it is online or in-person.

As of January 2018, there are six majors and minors available entirely online: communication, history, Jewish studies, political science, psychology, and sociology.

### Independent Learning Program

The University of Wisconsin System offers online independent learning opportunities (<https://il.wisconsin.edu/>) to students at all campuses whereby they can earn college credit.

Letters and Science students may take advantage of this program in one of two ways:

1. Students who meet the following criteria may be able to take a UW Independent Learning course for free:

- enrolled full-time in either fall or spring semester
- will also enroll in one or more UW Independent Learning course during the first two weeks of the fall or spring semester
- will complete the UW Independent Learning course during fall or spring semester rather than completing it at-your-own-pace
- will be taking a class or classes through UW Independent Learning that are not offered by UWM online (for example, foreign language courses)

If you meet these criteria, you should petition to take a UW independent Learning course for free by contacting the Assistant Dean for Student Success and Academic Services, Jennifer DeRoche at [jderoche@uwm.edu](mailto:jderoche@uwm.edu). Include in your email your name, student ID, and information about the class(es) you seek to take through the UW Independent Learning program.

2. Students can also choose to pay out-of-pocket for UW Independent Learning courses if they are part-time students or wish to take an Independent Learning course during summer term or UWinterIM term. Letters and Science imposes a one-year time limit to complete any UW Independent Learning class to have it count for credit.

All students should consult with their advisor prior to registering for a UW Independent Learning course to make sure they understand any other restrictions related to repeating a course that was previously taken or our concurrent enrollment policy (<http://uwm.edu/letters-science/advising/answers-forms/policies/concurrent-enrollment-policy/>).

### Credit for Demonstrated Equivalent Preparation (non-foreign language)

Under certain circumstances, a department may grant credits toward graduation for knowledge or abilities attained through previous work, i.e., coursework or other systematic study as determined by the department. Although the College of Letters and Science places no limit on the number of credits that may be obtained in this way, departments, if they choose to do so, may set limits on the number of credits they will grant.

Departments other than foreign language departments may grant a student credits toward graduation for a University course in which they request and pass a special University examination. An examination for credit must be based on work equivalent to a course given at UWM, and the credits granted will be for the corresponding course. In order to justify the request for an examination for credit, the student must present evidence of previous preparation to the department. Permission for such examinations must be secured in advance from the Dean of the College upon recommendation of the department chair. Examinations for credit will be taken at a time specified by the department. In general, a student may not take such an examination if any previous enrollment in the target course appears on the student's record, whether or not the course was completed.

### Credit for Demonstrated Equivalent Preparation (retro credits for foreign language)

Foreign language departments may allow students to receive credit for prerequisite language courses at the 100 and 200 level upon completion of higher-level entry courses in that language. For example, a student whose placement test score allows them to start at the Third-Semester Spanish, for example, would receive the credits for First-Semester Spanish and Second-Semester Spanish if they successfully complete Third-Semester Spanish with a B or better. As a general policy, a grade of B or above is required, but individual departments may set a higher grade requirement. Only the grade in the completed course is computed into the grade point average; no GPA points are calculated for the retro credits. A student who earns below the required grade in the starting course becomes, thereafter, ineligible for "retro" credits in the language involved.

The number of credits that can be earned in this way is limited to a maximum of 16 in any one language.

Credits granted for the courses skipped will be equal to the credit value of those course(s) or a maximum of 4 credits for each, whichever is smallest. Students may not be granted "retro" credits for courses at the 300 level and above, except where the fourth-semester course in a regular language sequence is numbered 300 or above.

In the foreign languages, retro credits also may be granted to transfer students under the following circumstances:

- Retro credits granted by another institution will be accepted at UWM if they were granted based on a course that generates retro credits at UWM and if the student has earned the grade that is required at UWM.

- A transfer student coming from an institution that does not grant retro credits but who took a foreign language course that transfers as a qualifying course at UWM may apply for retro credits if the student satisfies UWM standards for receiving retro credits.

In both cases, the number of retro credits awarded will be limited to the number of credits students at UWM are granted for each prerequisite course.

Students who want more information should contact the chair of the appropriate language department.

## First-Year Seminars

The First-Year Seminar Program gives freshmen the opportunity to participate in a small learning community during their first semester, helping to ease the transition to college.

Limited to just 20 first-year students, each seminar provides a unique opportunity for students to get to know their professors and fellow students. In this small seminar setting, the professor serves as a mentor, coaching and helping students to achieve success. First-year seminars emphasize the development of collaboration, teamwork, written and oral communication skills, creative and analytical thinking, and skills for college success.

Seminars are offered in a wide variety of interest areas across the natural sciences, social sciences, and humanities. Most first-year seminars are offered for three credits and can be applied to degree requirements. See the Schedule of Classes (<https://www4.uwm.edu/schedule/>) for a list of first-year seminars taught in the current semester.

For more information, contact your advisor or our admissions counselors at (414) 229-7711 or [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Independent Study

Certain departments allow qualified students to register for independent study. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a member of the Letters and Science faculty or instructional academic staff. The activities may include reading, research, or special projects. In most departments, independent study is offered at the lower (course number 199) and upper levels (course number 699), although both levels are not available in all departments.

In order to apply for lower-level independent study, students must have a 2.5 GPA or above on all credits attempted at UWM. The upper-level independent study course carries a prerequisite of junior standing and a 2.5 UWM GPA. Departments may opt to set higher GPA prerequisites. To ascertain class standing and cumulative GPA for new transfer, special, and summer-only students, a transcript of all previous college work must be submitted. Some independent study courses may have departmental prerequisites in addition to these college-wide prerequisites. Departments do not have the authority to waive college-wide prerequisites. To see if a particular department offers independent, see that department's course listings in this catalog.

Students interested in an independent study should work with the individual they have chosen as their supervising instruction to prepare a study proposal describing the plan of study. The study proposal must be approved by the department chair and forwarded to the Office of Student Academic Services via your Letters and Science advisor.

## Internships and Experiential Opportunities

Students are strongly encouraged to enhance their classroom knowledge with experiential knowledge gained through work, volunteer, and internship experiences. These experiences are vital to career exploration and for building a resume prior to graduation.

Students find internships through a variety of sources: some use their own network to find opportunities, some majors provide assistance or host a job board, and some organizations will post opportunities with the UWM Career Planning and Resource Center (<http://uwm.edu/careerplan/>). Students should explore all avenues, including speaking with both their major advisor and their Letters and Science advisor, to find experiential learning opportunities.

Some internships may be available for college credit or for pay, or a combination of both. Students should inquire of all details and arrange for proper registration for credit if that is an option with their major advisor.

## Research Experience (Office of Undergraduate Research (OUR))

Many programs in the College of Letters and Science work closely with the Office of Undergraduate Research (OUR) to offer research experiences for undergraduates. Research spans the natural sciences, social sciences, and humanities and highly-motivated students can contribute to the creation of knowledge, sometimes even achieving professional publication alongside of faculty members.

As early as the first year in college, students can work side-by-side with faculty members and graduate students on research projects. Opportunities can include credit, pay, or a combination of both.

OUR staff will help students identify possible research projects and arrange for students to meet with the faculty members. Students can browse current opportunities at their website (<https://uwm.edu/our/>).

## Certificate Programs

Certificates are similar to minors in terms of the number of credits required. Where a minor consists of all coursework from the same department, a certificate draws on classes from multiple areas all centered around a common theme such as Asian Studies.

All certificate programs are open to current students pursuing a degree in any area, including areas outside of the College of Letters and Science. Some certificates are also open to non-degree seeking students or students who already hold a bachelor's degree either from UWM or from another university. Interested students should check with the director of the certificate program to learn about any prerequisites or other requirements.

## Scholarships

The College as well as its many individual programs and departments have a limited number of scholarships and awards for high-achieving students. Students should visit our scholarship page (<http://uwm.edu/letters-science/scholarships/>) to learn more about available scholarships and deadlines. In general, new freshmen scholarships are given out between December and February for the following Fall (e.g. January of 2018 for a Fall 2018 start date). Many continuing student scholarships are given out 4 to 6 months ahead of the term in which the student will receive the funding (e.g. April of 2018 for the Fall 2018 semester).

## Administration

**Scott Gronert**

Dean

**Dave Clark**

Senior Associate Dean

**Daad Saffarini**

Associate Dean, Natural Sciences

**James Moyer**

Associate Dean, Social Sciences

**Jason Puskar**

Associate Dean, Humanities

**Deanna Alba**

Assistant Dean, College Relations, Marketing, Communication, PR

**Jennifer DeRoche**

Assistant Dean, Student Success and Academic Services

**Tim Miles**

Assistant Dean, Budget, Grants and Contracts

**Dan Siercks**

Director, Web and Data

**Kristin Sziarto**

Director, Curriculum and Governance

**Craig Wesley**

Senior Assistant Dean, Administrative Affairs and Personnel

## Contact Information

**Office of L&S Student Academic Services**

Holton Hall, 142

[uwm.edu/letters-science](http://uwm.edu/letters-science/) (<http://uwm.edu/letters-science/>)