

BACCALAUREATE COUNCIL
Second Meeting/2019-2020 Academic Year
October 10, 2019

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 1 of 12

COLLEGE OF EDUCATION

Other Catalog Change 2019-20 Undergraduate Catalog



Online Catalog [LINK](#)

Academic Regulations



Certificate of Undergraduate Study



~~Culturally Relevant Teaching (College of Education)~~



Online Catalog [LINK](#)

College of Education



~~Certificates of Undergraduate Study~~

~~Culturally Relevant Teaching (15)~~

~~This certificate is designed for educator licensure candidates to enhance their understanding of the diversity of cultures they can expect in their future classrooms. Candidates will learn to provide culturally relevant pedagogy while expanding the principles of universal design to improve learning for all students. This certificate is open to any NIU student who intends to pursue or who has been admitted to educator licensure. All course requirements for this certificate must be completed at NIU within three calendar years. Students pursuing this certificate must file a formal application with the associate dean of the College of Education at least one semester prior to graduation and must complete all certificate requirements before the certificate is listed on the transcript.~~

Requirements

~~*#EPFE 201— Education as an Agent for Change (3)~~

~~#EPFE 440— Education for Social Justice (3)~~

~~#LTIC 301— Teaching with a Multicultural Perspective (3)~~

~~#LTIC 400— Introduction to Teaching English Language Learners (3)~~

~~*#SESE 320— Disability in Film (3)~~

Page 433

INDEX



~~Culturally Relevant Teaching, certificate, 124~~

RATIONALE: No Students have completed the certificate since Fall 2014.

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 2 of 12

CURRICULUM AND INSTRUCTION

Other Catalog Change

2019-20 Undergraduate Catalog

Online Catalog [LINK](#)

Certificate of Undergraduate Study

↓

~~Logistics (Department of Industrial and Systems Engineering)~~

~~Middle School Literacy (Department of Curriculum and Instruction)~~

~~Mobile Programming (Department of Computer Science)~~

Online Catalog [LINK](#)

Certificate of Undergraduate Study

Middle School Literacy (15)

~~This certificate is designed to prepare teacher candidates with a set of courses focused on literacy instruction that is developmentally appropriate for students at the middle school level. Candidates completing this certificate will acquire the skills and techniques for developing and assessing literacy instruction, and methods for integrating literacy instruction across the middle school curriculum.~~

~~The certificate of undergraduate study in middle school literacy is open to all candidates admitted to degree or non-degree study at Northern Illinois University. Candidates who want to pursue this certificate must receive approval and advisement from the coordinator. Those who want to earn the Middle School endorsement from the Illinois State Board of Education should contact the certificate coordinator for further information. Candidates must maintain good academic standing in the university, achieve a minimum grade of C in each certificate course, and complete all certificate course work within six calendar years.~~

Requirements (15)

~~LTLA 350—Language Arts in the Middle School (3)~~

~~LTLA 363—Young Adult Literature in a Multicultural Society (3) LTRE 305—Teaching Reading in the Middle School (3)~~

~~^LTRE 311—Content Area Literacy Instruction (3)~~

~~LTIC 420—Methods and Materials for Teaching English Language Learners in Content Areas (3)~~

RATIONALE: This certificate was developed prior to ISBE changing licensure grade level bands and the creation of an entire B.S.Ed-Middle Level Teaching and Learning Program (MLTL) licensure program. As such, those who want to earn the Middle School endorsement in English Language Arts from the Illinois State Board of Education, enroll in the B.S.Ed-MLTL program.

BACCALAUREATE COUNCIL
Second Meeting/2019-2020 Academic Year
October 10, 2019

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 3 of 12

There is no need for the certificate as the core courses identified as part of this certificate are now required as part of the MLTL program.

No students outside of the professional educator licensure program are currently pursuing this certificate.

COLLEGE OF ENGINEERING AND ENGINEERING TECHNOLOGY

↓

Department of Engineering Technology

↓

Department Name Change Undergraduate Catalog 2019-21 [LINK](#)

TECH 409 - Internship

A work experience program planned for the student lacking full-time experience in industry. The learning situation is organized and supervised cooperatively by the Department of Engineering Technology staff and personnel of selected organizations. Learning experiences include obtaining, with the guidance and approval of the department's faculty coordinator, an acceptable type of wage-earning employment where intern-learning experiences are present. A minimum of eight 40-hour work weeks or 320 work hours total is required for 3 semester hours of credit. May be repeated to a maximum of 6 semester hours. Final report required.

Prerequisites & Notes

PRQ: Junior standing and consent of major adviser and supervising instructor. Internship cannot be used for credit if already employed in that position.

Credits: 3

Rationale: The proposed name change is more consistent with College of Engineering and Engineering Technology. The name change will also reduce confusion on the programs for students and external persons such as parents of potential students and High School Advisors. According to the dean's office, the name of the department was originally approved by the IBHE as "Engineering Technology" and no official name change documentation has been located.

Other Catalog Change: Catalog 2020-2021 [Link](#)

Department of Engineering Technology

↓

EMPHASIS 4. ENERGY AND ENVIRONMENTAL ENGINEERING TECHNOLOGY

↓

Rationale: The Department is Technology is updating its name to be Department of Engineering Technology.

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 4 of 12

The proposed change in the emphasis name better reflects the focus of the department and coincides with the updated name.

Other Catalog Change 2019-20 Catalog [LINK](#)

Engineering Technology (TECH)

↓

Mission

The mission of the Department of **Engineering** Technology is to offer engaged learning programs that promote strong partnerships with industry and foster a synergetic, interactive relationship between faculty and students. The Department of **Engineering** Technology is committed to provide our students with an industry-focused technical education that emphasizes theoretical and applications-oriented approaches to problem solving. The departmental faculty will strive to provide technical programs which allow our students to excel in current and future industrial settings.

Vision

The Department of **Engineering** Technology is committed to technical education and programs which incorporate continuous improvement, student-centered engagement, and applied research that prepare our students to analyze, develop, and implement innovative and sustainable solutions for a contemporary society.

Educational Objectives

As a statement of the career and professional accomplishments that the Department of **Engineering** Technology is preparing its graduates to achieve, we have adopted the following Educational Objectives, in consultation with our alumni, Industrial Advisory Boards, and other program stake holders:

- Apply scientific, mathematical, and engineering principles to analyze, develop, and implement systems.
- Communicate effectively and work cohesively on team-based projects.
- Apply technical knowledge demanded by today's innovation driven industrial workplace.
- Understand the need for continued professional development to enhance technical and professional skills.
- Develop applied solutions that meet ethical, cultural, and environmental needs of society.

↓

Department Requirement

All **Engineering** Technology majors/minors who do not place into MATH 229 must obtain a grade of C or better in MATH 155.

Certificate of Undergraduate Study

↓

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 5 of 12

The Department of **Engineering** Technology participates in the Homeland Security Certificate of Undergraduate Study. See the section on Inter-College Interdisciplinary Certificates in this catalog for details or visit the Homeland Security website at <http://www.niu.edu/HomelandSecurity/index.shtml>.

Certificates of undergraduate study in the Department of **Engineering** Technology are open to all NIU undergraduate students. Students must maintain good academic standing in the university by achieving a GPA of at least 2.00 in all certificate courses and by completing all certificate course work within six calendar years. Some courses may have prerequisites that are not part of the certificate curriculum. All course requirements for the certificate must be completed at NIU. With department approval, some, or all, of the certificate courses may be applied toward undergraduate degree requirements in the department. The Department of **Engineering** Technology reserves the right to limit enrollment in any of the certificate courses.

Engineering Technology Faculty

Pradip Majumdar, interim chair

Abul Azad, Ph.D., University of Sheffield (United Kingdom), professor

Liping Guo, Ph.D., Auburn University, ~~associate~~ professor

Theodore J. Hogan, Ph.D., C.I.H., University of Illinois, Chicago, associate professor

Sarveswara (Rao) Kilaparti, Ph.D., Northwestern University, associate professor

Kevin Martin, Ph.D., University of Missouri, associate professor

William J. Mills, Ph.D., University of Illinois, Chicago, ~~assistant~~ **associate** professor

Shanthi Muthuswamy, Ph.D., University of New York, associate professor

Andrew W. Otieno, Ph.D., University of Leeds (Britain), Presidential Engagement Professor

Said Oucheriah, Ph.D., P.E., Cleveland State University, professor

~~David J. Schroeder, Ph.D., University of Illinois, associate professor~~

Shun Takai, Ph.D., Stanford University, associate professor

Robert Tatara, Ph.D., Northwestern University, professor

Mahdi Vaezi, Ph.D., University of Alberta, assistant professor

Rationale: The proposed name change is more consistent with College of Engineering and Engineering Technology. The name change will also reduce confusion on the programs for students and external persons such as parents of potential students and High School Advisors. According to the dean's office, the name of the department was originally approved by the IBHE as "Engineering Technology" and no official name change documentation has been located.

Other Catalog Change

2019-20 Catalog

[LINK](#)

Academic Regulations

↓

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 6 of 12

Certificate of Undergraduate Study

↓

Digital Media Production (Department of Communication)
eLearning Design (Department of Educational Technology, Research & Assessment)
Energy Management (Department of **Engineering** Technology)
Enterprise Management Using SAP Software (Department of Operations Management and Information Systems)
Facilities Management (Department of **Engineering** Technology)
Film and Television Studies (College of Liberal Arts and Sciences)
Finance (Department of Finance)

Rationale: The proposed name change is more consistent with College of Engineering and Engineering Technology. The name change will also reduce confusion on the programs for students and external persons such as parents of potential students and High School Advisors. According to the dean's office, the name of the department was originally approved by the IBHE as "Engineering Technology" and no official name change documentation has been located.

Other Catalog Change 2019-20 Catalog [LINK](#)

Admission

↓

Undergraduate Admission

Northern Illinois University recognizes that the principles of cultural diversity and global awareness are essential to learning and striving for excellence in the higher educational environment. In recognition of this commitment, NIU expressly prohibits the consideration or use of race, color, national origin, sex, religion, age, physical or mental disability, marital status, veteran status, sexual orientation, political affiliation, status as a victim or perceived victim of domestic or sexual violence or any other factor unrelated to professional qualifications as a basis for any employment decision, in its admission procedures, and in access to its programs. Factors such as academic record, test scores, special talents or ability, personal character, and references may be taken into consideration in the admission process.

Applicants will be considered for admission to the university if they meet the requirements specified under any of the following headings.

Freshmen
Transfer Students
Illinois Public Community College Graduates
International Students
Postbaccalaureate Students

Applicants who do not meet the admission requirements for the categories listed above may apply for special admission to the university. Information about these opportunities may be found under "Special Admission to the University."

BACCALAUREATE COUNCIL
Second Meeting/2019-2020 Academic Year
October 10, 2019

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 7 of 12

Applicants who desire to enroll for a limited period at the university may find information about these opportunities under the following heading.

Visiting Students

Former NIU students should refer to the section “Readmission of Former NIU Students.”

Applicants must meet additional criteria and/or submit additional documents if they wish to be considered for admission to the following units that administer limited admissions majors, emphases, and/or areas of study. See “Limited Admissions and Limited Retention Requirements.”

Department of Computer Science
Department of Kinesiology and Physical Education (athletic training)
Department of Curriculum and Instruction (elementary education)
Department of Special and Early Education (early childhood studies)
Department of **Engineering** Technology (nuclear engineering technology emphasis)
School of Allied Health and Communicative Disorders (health sciences/physical therapy)
School of Art and Design (art and design education; art studio; visual communication area of study)
School of Family and Consumer Sciences (human development and family sciences)
School of Health Studies (medical laboratory sciences)
School of Music
School of Nursing (nursing)
School of Theatre and Dance (B.A. major in theatre studies; B.F.A. emphasis in acting; B.F.A. emphasis in design and technology)

Some programs have limited retention. See individual colleges and departments for specific requirements.

↓

Rationale: The proposed name change is more consistent with College of Engineering and Engineering Technology. The name change will also reduce confusion on the programs for students and external persons such as parents of potential students and High School Advisors. According to the dean's office, the name of the department was originally approved by the IBHE as “Engineering Technology” and no official name change documentation has been located.

Other Catalog Change 2019-20 Catalog [LINK](#)

College of Engineering and Engineering Technology

↓

Department Names and Undergraduate Programs Offered

↓

Department of **Engineering Technology**

B.S. in technology

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 8 of 12

Rationale: The proposed name change is more consistent with College of Engineering and Engineering Technology. The name change will also reduce confusion on the programs for students and external persons such as parents of potential students and High School Advisors. According to the dean's office, the name of the department was originally approved by the IBHE as "Engineering Technology" and no official name change documentation has been located.

Other Catalog Change 2019-20 Catalog [LINK](#)

Engineering Technology (B.S.)

↓

Emphasis 5. Applied Manufacturing Technology

This area of study is limited to transfer students with an Associates of Applied Science degree with a major in a recognized technical area. With the approval of the NIU Department of **Engineering Technology** adviser and chair, up to 43 hours of proficiency credit, which includes up to 9 hours of upper-level credit, can be used towards the 120-semester hour total and 40-semester-hour upper-level university graduation requirements.

Students in this emphasis are exempt from the 30-semester-hour university residence requirement. All students in this emphasis must obtain a grade of C or better in MATH 155 and all majors must meet NIU's requirements for general education (29-41 hours).

Rationale: The proposed name change is more consistent with College of Engineering and Engineering Technology. The name change will also reduce confusion on the programs for students and external persons such as parents of potential students and High School Advisors. According to the dean's office, the name of the department was originally approved by the IBHE as "Engineering Technology" and no official name change documentation has been located.

Other Catalog Change 2019-20 Catalog [LINK](#)

Homeland Security (15-18)

↓

Emergency Management Response Track

Coordinator: Theodore Hogan, Department of **Engineering Technology**

Rationale: The proposed name change is more consistent with College of Engineering and Engineering Technology. The name change will also reduce confusion on the programs for students and external persons such as parents of potential students and High School Advisors. According to the dean's office, the name of the department was originally approved by the IBHE as "Engineering Technology" and no official name change documentation has been located.

Other Catalog Change 2019-20 Catalog [LINK](#)

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 9 of 12



College of Engineering and Engineering Technology

Dean: Donald R. Peterson, Ph.D., FAIMBE

Senior Associate Dean, Research and Graduate Programs: Mansour Tahernezehadi, Ph.D., P.E.

Acting Associate Dean, Undergraduate Programs: Abul K. M. Azad, Ph.D.

Department of Electrical Engineering

Department of Industrial and Systems Engineering

Department of Mechanical Engineering

Department of **Engineering** Technology

Rationale: The proposed name change is more consistent with College of Engineering and Engineering Technology. The name change will also reduce confusion on the programs for students and external persons such as parents of potential students and High School Advisors. According to the dean's office, the name of the department was originally approved by the IBHE as "Engineering Technology" and no official name change documentation has been located.

COLLEGE OF LIBERAL ART AND SCIENCES

Other Catalog Change 2019-20 Online Undergraduate Catalog [LINK](#)

Geography (B.A. or B.S.)

Check departmental information for any additional requirements.

The **emphasis major** in geography offers the opportunity to develop greater understanding of a specific aspect of geography by choosing electives from one of three areas of study: human geography, geographic information science (GIS), or natural environmental systems. With the proper selection set of electives, the student can meet federal civil service qualification standards as a soil scientist or hydrologist. ~~The emphasis in geomatics integrates land surveying and mapping science. Students pursuing the emphasis in geography may earn the B.A. or the B.S. degree; those pursuing the emphasis in geomatics must fulfill requirements for the B.S. degree.~~

The student learning outcomes for this degree are located at <http://www.niu.edu/assessment/clearinghouse/outcomes/index.shtml>.

Emphasis 1: Geography (B.A. or B.S.)

Requirements in Department (35-36)



Natural Environmental Systems

Students will be better prepared for this area by fulfilling the B.S. degree requirements.

BACCALAUREATE COUNCIL
Second Meeting/2019-2020 Academic Year
October 10, 2019

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 10 of 12

- ↓
- GEOG 407 - Technological Hazards Credits: 3
 - ~~GEOG 408 - Tropical Environmental Hazards Credits: 3~~
 - GEOG 413 - Forest Ecology and Management Credits: 3

↓
Requirements outside Department (B.A., 7-20; B.S., 10-15)

↓
Total Hours for Emphasis 1, a Major in Geography: 42-56 (B.A.) or 45-51 (B.S.)

Recommendations

Students interested in environmental studies early in their course of study.

Rationale: Emphasis 2, Geomatics, is being deleted so the term “Emphasis 1” is no longer needed. Geography (B.A. or B.S.) will be the only major program offered by GEOG. Also, the deletion of GEOG 408.

Other Catalog Change 2019-20 Online Undergraduate Catalog [LINK](#)

Geography (B.A. or B.S.)

↓
Emphasis 2: Geomatics (B.S.)

Requirements in Department (41)

- ~~GEOG 101 - Introduction to Environmental Geography Credits: 3~~
Available for general education credit.
This is a nature and technology general education course for Global Connections Pathway.
 - ~~AND GEOG 102 - Introduction to Environmental Geography Laboratory Credits: 1~~
 - ~~OR GEOG 105 - Weather, Climate, and You Credits: 3~~
Available for general education credit.
 - ~~AND GEOG 106 - Weather and Climate Laboratory Credits: 1~~
- ~~GEOG 150 - Introduction to Geomatics Credits: 3~~
- ~~GEOG 202 - World Regional Geography Credits: 3~~
Available for general education credit.
This is a society and culture general education course for Origins and Influences Pathway.
GEOG 202 also fulfills the Human Diversity Requirement.
 - ~~OR GEOG 204 - Geography of Economic Activities Credits: 3~~
Available for general education credit.

BACCALAUREATE COUNCIL
Second Meeting/2019-2020 Academic Year
October 10, 2019

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 11 of 12

~~This is a society and culture general education course for Global Connections Pathway.~~

- ~~● GEOG 250 – Civil Surveying Credits: 4~~
- ~~● GEOG 251 – Control Surveying Credits: 4~~
- ~~● GEOG 256 – Maps and Mapping Credits: 3~~
~~Available for general education credit.~~
- ~~● GEOG 300 – Proseminar Credits: 1~~
- ~~● GEOG 350 – Land Surveying Credits: 4~~
- ~~● GEOG 359 – Introduction to Geographic Information Systems Credits: 3~~
- ~~● GEOG 450 – Legal Aspects of Geomatics and Land Surveying Credits: 3~~

~~Course work from the following (9)~~

- ~~● GEOG 360 – Earth from Space: Introduction to Remote Sensing Credits: 3~~
- ~~● GEOG 391 – Internship Credits: 1-6 M. Geomatics/Surveying~~
~~Students must take this course for 3 semester hours.~~
- ~~● GEOG 403 – Soils and Environmental Land Use Planning Credits: 3~~
- ~~● GEOG 455 – Land Use Planning Credits:~~
- ~~● GEOG 459 – Geographic Information Systems Credits: 3~~
- ~~● GEOG 460 – Remote Sensing of the Environment Credits: 3~~
- ~~● GEOG 468 – Workshop in GIS Credits: 3~~
- ~~● GEOG 474 – Geomatics Design in Land Development Credits: 4~~
- ~~● GEOG 475 – Geomatics Planning and Computation Credits: 3~~
- ~~● GEOL 425 – Engineering Geology Credits: 3~~

~~Requirements outside Department (16)~~

- ~~● MATH 211 – Calculus for Business and Social Science Credits: 4~~
~~Available for general education credit.~~
 - ~~○ OR MATH 229 – Calculus I Credits: 4~~
~~Available for general education credit.~~
- ~~● PHYS 210 – General Physics I Credits: 4~~
~~Available for general education credit.~~
- ~~● PHYS 211 – General Physics II Credits: 4~~
~~Available for general education credit.~~
- ~~● STAT 200 – Elementary Statistics Credits: 4~~

Recommendations

Students interested in a career in land surveying will need to satisfy curricular and course requirements for the surveyor in training examination. Students should consult with the undergraduate adviser early in their course of study for advice on fulfilling those requirements.

BACCALAUREATE COUNCIL
Second Meeting/2019-2020 Academic Year
October 10, 2019

SECTION B – Recorded, but further approval needed before inclusion in the Undergraduate Catalog

p. 12 of 12

~~Total Hours for Emphasis 2, Geomatics: 57 (B.S.)~~

Rationale: We wish to remove the Geomatics (B.S.) emphasis entirely from the Geography major as we are not able to consistently offer the required courses. The Request for Approval of the Deletion of a Major or of a Subdivision of a Major (APPM, Section III, Appendix G) is attached.