

Departmental Programs

Undergraduate Emphases

Industrial Technology

Engineering Technology

Graduate Programs

Master's in Industrial Management

Departmental Faculty

Clifford Mirman, chair, professor, Ph.D.

Radha Balamuralikrishna, assistant professor, Ph.D.

Earl E. Hansen, associate professor, Ed.D., CHCM

Youakim Kalaani, assistant professor, Ph.D.

Said Oucheriah, associate professor, Ph.D., P.E.

Andrew Otieno, assistant professor, Ph. D.

Kurt Rosentrater, assistant professor, Ph.D.

Kari Rosentrater, instructor, BA

Jule D. Scarborough, professor, Ph.D., CSIT

Xueshu Song, associate professor, Ph.D., P.E.

James R. Stewart, associate professor, Ph.D., P.E.

Dennis Stoia, associate professor, M.B.A., P.E.

Robert Tatara, assistant professor, Ph. D.

Promod Vohra, assoc. dean, professor, Ed.D., P.E.

James Wilson, instructor, M.S., P.E.

B.S. in Technology

Industrial Technology Emphasis

Special Technical Area of Study

Emphasis Requirements

(minimum of 120 semester hours)

(Rock Valley College courses are shown in parentheses (). The equivalent NIU course follows the parentheses.)

Communication Competency Requirements (9) *

(SPH 131) COMS 100. Fundamentals of Oral Comm (3)

(ENG 101) ENGL 103. Rhetoric and Composition I (3)

(ENG 103) ENGL 104. Rhetoric and Composition II (3)

General Education Requirements (18) *

Humanities (LAS) Elective (3)

Humanities (LAS or VPA) Elective (3)

Humanities (LAS or VPA) or SS Elective (3)

Social Science Elective (3)

Social Science Elective (3)

Interdisciplinary Elective (3)

(Choose general education courses from those listed in the Northern Illinois University Articulation Handbook or those listed in the Illinois Articulation Initiative.)

Foundation Requirement outside Department (20) *

(ATG 110) ACCY 206. Introductory Financial Actg (3)

(CHM 100) CHEM 110. Chemistry (4)

and CHEM 111. Chemistry Laboratory (1)

(MTH 125) MATH 155 Trig and Elem Functions (3)

(ENG 210) MGMT 346. Business Communications (3)

or ENGL 308 – Technical Writing (3)

(PHY 112) PHYS 150A. Physics (4)

(MTH 220) STAT 208. Basic Statistics (3)

Technical Requirements within Department (10) *

(ENG 132) TECH 211. Computer-Aided Design (3)

(EET 133) TECH 175. Electricity and Electr. Fund (3)

and TECH 175A. Electricity and Elect. Fund Lab (1)

(CDT 104) TECH 265. Basic Manufacturing Proc (3)

**(Associate degree courses may qualify to substitute for above.)*

Special Technical Area of Study Requirements (23) **

This area of study is limited to transfer students with an Associate of Applied Science degree with a major in a recognized field of industrial technology. Up to 23 semester hours of credit from the A.A.S. degree may be applied to this area of study with the consent of the departmental adviser and department chair.

Management and Supervision Requirements (27)

TECH 302. Graphic Presentation and Communication (3)

TECH 394. Industrial Project Management (3)

TECH 395. Industrial Data Processing (3)

TECH 402. Industrial Training and Evaluation (3)

TECH 404. Supervision in Industry (3)

TECH 429. Plant Loc, Layout and Materials Handling (3)

TECH 434. Human Factors in Ind Accident Prevention (3)

TECH 442. Work Simplification and Measurement (3)

TECH 491. Industrial Quality Control (3)

Electives (Minimum of 9 semester hours) **

(With advice and consent of adviser, choose a minimum of 9 hours from the list below or other Technology Department courses which provide leadership or technical depth.)

TECH 334. Hazard Control in Industrial Operations (3)

TECH 401. Ethics in Technology (3)

TECH 405. Technology a Human Endeavor (3)

TECH 406. Occupational Analysis (3)

TECH 408. Ind. Conference & Meeting Mgmt (3)

TECH 420. Automated Manufacturing Systems (3)

TECH 432. Disaster Preparedness (3)

TECH 435. Legal Aspects of Safety (3)

TECH 443. Engineering Economy (3)

TECH 444. Production Control Systems (3)

TECH 481. Ergonomics (3)

TECH 482. Industrial Safety Engineering Analysis (3)

TECH 484. Energy Management (3)

TECH 497. Workshop in Technology (1-6)

*** (Associate degree courses may qualify to substitute for these electives, please consult the department)*

About the B.S. in Technology

The NIU B.S. in technology, with an emphasis in industrial technology, provides students with a combination of hands-on technical skills and a sound management base.

Building on a technical A.A.S. degree, this program offers a core of management and supervision courses and a variety of technology and management electives. Those with an A.S., A.A., or other academic degree should meet with an adviser to assess their course work and plan their degree program.

Graduates of the NIU industrial technology program have the skills to enter or improve their position in the industrial management or manufacturing fields.

Unique Features and Benefits of the Program

The B.S. in technology:

- enables an employed technical professional the option of attaining a baccalaureate degree while working full time.
- allows busy, working adults to pursue degrees conveniently on a part-time basis in the evenings and on weekends.
- offers the opportunity for career advancement and increased career options.
- provides students with the latest technical knowledge from courses taught by NIU faculty or experts in the field.
- encourages students to learn from and network with others in their field.

Admission

Students taking classes at RVC can take advantage of the dual admissions program with NIU and be automatically admitted into the B.S. in technology program. This seamless transfer process allows students to receive updates on their academic progress and understand how RVC courses will transfer for credit in NIU's B.S. in technology program.

Course Location

Courses will be offered in the Rockford area at Rock Valley College's main and satellite locations or at NIU-Rockford.

Program Accreditation

The industrial technology emphasis received initial accreditation in 1998, and is fully accredited by the National Association of Industrial Technologists (NAIT).

Contact

Individuals with additional questions should contact Cliff Mirman, chair of the Department of Technology, at (815) 753-1349 or cmirman@niu.edu. Students should also consult the NIU *Undergraduate Catalog* (www.reg.niu.edu/ugcat/) or the department of technology's web site at www.ceet.niu.edu/tech for complete course titles, descriptions and additional information.

An Open Invitation

If the emphasis of industrial technology at Northern Illinois University sounds interesting and you would like some additional information, or would like to see our facilities, please contact us at:

(815) 753-1349

Or check us out on the web:

www.ceet.niu.edu/tech



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NORTHERN
ILLINOIS
UNIVERSITY

**College of Engineering and
Engineering Technology**

**Department of
Technology**

**Industrial Technology
Emphasis
Special Technical Area of Study**

At

**Rock Valley College
&
NIU-Rockford**

**2004-05
Undergraduate
Catalog**