

AVIATION FLIGHT TECHNOLOGY MINOR (AVFT)

The aviation flight technology minor is designed to develop flight skills as a pilot for various fields of aviation. Students who complete the minor will have earned their private pilot certificate and their commercial pilot certificate with an instrument rating, will be certified for flying for personal and business interests.

Required Courses	26 hours
INDT170 Aviation Ground Instruction (3 hrs)	
INDT251 Basic Flight I (2 hrs)	
INDT261 Basic Flight II (2 hrs)	
INDT271 Basic Flight III (2 hrs)	
INDT341 Instrument Ground Instruction (2 hrs)	
INDT342 Commercial Ground Instruction (2 hrs)	
INDT351 Advanced Flight I (2 hrs)	
INDT361 Advanced Flight II (2 hrs)	
INDT110 Aircraft Maintenance I (3 hrs)	
INDT208 Aviation Human Factors (3 hrs)	
INDT320 Aviation Safety (3 hrs)	

Minor Total **26 hours**

GRAPHIC COMMUNICATION MINOR (GRCM)

This minor is designed to provide technical communication skills to majors in fields such as graphic design and journalism. The electives in the minor are diverse and extensive enough to allow for individual flexibility.

Required Courses	11 hours
INDT104 Introduction to Communication Technology (2 hrs)	
INDT121 Graphic Communication (3 hrs)	
INDT204 Photographic Communication (3 hrs)	
INDT207 Photographic Reproduction (3 hrs)	
Elective Courses	12 hours
<i>Twelve hours from the following:</i>	
INDT201 Microcomputer Applications in Technology (3 hrs)	
INDT304 Advanced Photographic Communication (3 hrs)	
INDT318 Graphic Arts Workshop (3 hrs)	
INDT404 Photo Communication Workshop (3 hrs)	
CADM231 Computer Graphic Programming for Industry (3 hrs)	
ART165 Graphic Design for Non-majors (3 hrs)	
or courses from journalism, marketing or management selected in consultation with an adviser.	

Minor Total **23 hours**

NETWORK AND INFORMATION TECHNOLOGY ADMINISTRATION MINOR (NITA)

Required Courses	18 hours
BEDU210 Concepts of Network and Business Technology (3 hrs)	
BEDU224 Computer-based Business Mathematics (3 hrs)	
BEDU344 Administration of Computer Systems (3 hrs)	
BEDU395 Administering Workplace Systems and Technology (3 hrs)	
BEDU396 Information and Media Administration (3 hrs)	
BEDU496 Records Administration Using Database (3 hrs)	
Restricted Elective Course	3 hours
<i>One business education (BEDU) course selected in consultation with the program adviser.</i>	

Minor Total **21 hours**

Note:

Students must complete BEDU201 Microcomputers for Business Applications to meet course prerequisites in the minor (BEDU210, BEDU224, and BEDU396). Students who have met the general education requirement for computer literacy through some other course should consult the program advisor about whether the requirement for BEDU201 can be waived.

TECHNOLOGY AND DESIGN EDUCATION MINOR (TCDE)

Elementary and Special Education-Elementary Teacher Certification

Successful completion of this 24 credit-hour minor, in the context of other program requirements, qualifies the student for recommendation for endorsement in technology and design, certification code TX. The Michigan Test for Teacher Certification (MTTC) covering this field is #88 "Technology and Design."

Required Courses

TEDU250 Foundations of Technology and Vocational Education (3 hrs)	
†TEDU253 Technology Education for Children (3 hrs)	
TEDU354 Experiences in Technology for Children (2 hrs)	
TEDU355 Seminar in Technology for the Elementary School (2 hrs)	

Twelve hours from the following:

INDT121 Graphic Communication (3 hrs)	
TEDU103 Structures and Design in Technology (3 hrs)	
TEDU106 Processing Technology (3 hrs)	
TEDU114 Information and Control Technology (3 hrs)	
TEDU118 Energy and Transportation Technology (3 hrs)	

Select a minimum of two hours from the following:

INDT204 Photographic Communication (3 hrs)	
TEDU152 Arts and Crafts (3 hrs)	
TEDU350 Curriculum in Technology and Vocational Education (3 hrs)	
TEDU452 Principles of Vocational Education (3 hrs)	
TEDU497 Directed Study — Technology Education (1 hr)	

Minor Total **24 hours**

Note:

†Satisfied in professional studies in elementary program.

TECHNOLOGY AND SOCIETY MINOR (TCSO)

This minor is interdisciplinary in nature and provides students majoring in science or technology with an understanding of the societal impact of existing and emerging technologies. While housed in the Department of Interdisciplinary Technology, the minor utilizes contributions from several departments including biology, chemistry, computer science, economics and history.

Required Courses

One course from the following:

COSC101 Computer Science Concepts and Practical Applications (3 hrs)	
COSC145 Introduction to FORTRAN Programming (3 hrs)	
HIST290 Introduction to the History of Technology (3 hrs)	
INDT150 Understanding Technology (3 hrs)	
INDT308 Seminar in Technological Impacts (3 hrs)	
INDT495 Technology, Values, and the Future (3 hrs)	

Restricted Elective Courses

Three courses from the following, with at least one course from each sub-group, A and B: