Training in the Machine Tool Technology program is based on two concepts: conventional machining and computer numerical control machining (CNC). Students produce hands-on projects from blueprints or existing parts. Activities cover knowledge/safe hands-on operation of all machine tool equipment, as well as precision measurement, shop-related blueprint reading, and applied mathematics. Students in CNC courses learn basic machine code programming, conversational programming, and work with CAD/CAM software to create two and three dimensional programs for CNC machines. In addition, five general education classes are required.
MACHINE TOOL TECHNOLOGY

RECOMMENDED COURSE SEQUENCE

FIRST YEAR

FALL SEMESTER

MTT 114   Fundamentals of Machine Tool  7
MTT 118   Metrology/Control Charts  3
MT 115     Technical Mathematics or
MT 125   Tech. Algebra & Trig. or Higher  3
BRX 110   Basic Blueprint Rdg. for Machinists  2
              Computer Literacy  2-3

SPRING SEMESTER

MTT 124   Applied Machining  7
MTT 134   Manual Prog./CAD/CAM/CNC  6
BRX 210   Mechanical Blueprint Reading  2
ENG 101   Writing I  3

SECOND YEAR

FALL SEMESTER

MTT 214   Industrial Machining  7
MTT 230   Conversational Programming  6
              Science  3
              Elective  2-3

SPRING SEMESTER

MTT 224   Advanced Industrial Machining  6
MTT 240   Introduction to 3-D program.  6
              Social Interactions  3
              Heritage/Humanities  3

TOTAL CREDITS  71-77

Other available options in the Machine Tool program are the Machinist and CNC Machinist diplomas, an Exploratory Machining, a Machine Operator I or a Machine Operator II certificate. Please see the catalog or your advisor for a complete list of courses and descriptions.

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OCTC is an equal opportunity institution.