Mission Statement:
The mission of the Machine Tool Technology program at Greenville Technical College is to provide the college’s local service area with a pool of skilled entry-level Machinist, Tool Makers, CNC Operators and CNC Programmers. The program will graduate students who can enter the workforce with little supervision and will be trained on equipment that is current with industry.

Entrance Requirements:
Acceptable placement test score(s); plus high school diploma or GED

Type of Program:
Day or evening

Employment Opportunities:
Large and small machine shops, job shops, and manufacturing companies.

- This program teaches machine controls, setting of tools, machine limits and capabilities; creating, editing and debugging high-tech machine programs; focuses on writing programs both manually and utilizing high-end CAD/CAM software; and teaches the basics of 3-axis machining and turning centers all the way up to multi-axis machining and turning centers. This program will also teach the basics of Rapid Prototyping.
- This associate degree program meets the academic requirements of the South Carolina Chapter of the National Tooling and Machining Association Apprentice Program.

Recommended Program Schedule

First Semester – Fall
MTT 120 Machine Tool Print Reading 3.0
MTT 121 Machine Tool Theory I 3.0
MTT 122 Machine Tool Practice I 4.0
MTT 105 Machine Tool Math Applications 3.0

Second Semester – Spring
MTT 243 Advanced Dimensional Metrology for Machinists 3.0
MTT 250 Principles of CNC 3.0
MTT 251 CNC Operations 3.0
MTT 258 CNC Machine Tool CAM 3.0

Third Semester – Summer
MTT 252 CNC Setup and Operations 4.0
MTT 254 CNC Programming I 3.0
MTT 145 Machining of Metals 3.0

Fourth Semester – Fall
MTT 253 CNC Programming and Operations 3.0
MTT 255 CNC Programming II 3.0
MAT 170 Algebra, Geometry & Trigonometry I* 3.0
ENG 165 Professional Communications* 3.0

Fifth Semester – Spring
MTT 260 Advanced Multi-Axis Programming and Operations I 4.0
MAT 250 Humanities/Fine Arts elective** 3.0
ENG 166 Social Science elective** 3.0
ENG 260 General education course** 3.0

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Sixth Semester – Summer

MTT 241 Jigs and Fixtures I 2.0
or

MTT 299 Research in Advanced CNC 3.0
MTT 245 Rapid Prototype Setup and Operations 3.0
MTT 261 Advanced Multi-Axis Programming and Operations II 4.0

Total Required Credit Hours: 69.0 / 70.0

*General education course
** See faculty advisor for specific elective recommendations.

Visit https://www.gvltec.edu/gainful-employment/ for important information about the educational debt, earnings and graduation rates of students who attended programs.