



| Program: Machine Tool Technology AAS (67 credits) | | | | Division: Science/Math | | | |
|---|----------|----------------------------|------|------------------------|---|------------------------|-------------------|
| Student: | | | ID#: | | | Catalog Yr: 2015-16 | |
| GENERAL EDUCATION REQUIREMENTS –AAS (25 credits) | | | | | | | |
| √ | Course# | Course Name | Cr. | Req. | Pre-requisites | Sem. | Code [^] |
| | ORI-103 | College Success Strategies | 3 | X | | All & OL | |
| | COM-121* | English Composition | 3 | X | COM-061 or ESL-060 and COM-050/1 or ESL-050/1 (C or better) | All & OL | WC/IL |
| | COM-141 | Technical Writing | 3 | X | COM-121 or COM-122 (C or better) | F/Sp & OL | OC |
| | IFT-110 | Microcomputer Applications | 3 | X | MAT-020 and COM-061 or ESL-060 | All & OL | TC |
| ARTS and HUMANITIES: 3 credits | | | | | | | |
| Select 1 course from the following: | | | | | | | |
| | ART-111 | Introduction to Drawing | 3 | X | COM-061 or ESL-060 and COM-050/1 or ESL-050/1 | All | AU |
| | ART-201 | Art Appreciation | 3 | | COM-121 or COM-122 (C or better) | All & OL | AU |
| | COM-110 | Intro. to Creative Writing | 3 | | COM-061 or ESL-060 and COM-050/1 or ESL-050/1 | | AU |
| | ENG-125 | Introduction to Literature | 3 | | COM-121 or COM-122 (C or better) | All & OL | AU |
| | PHI-271 | Philosophy | 3 | | COM-121 or COM-122 | All | AU |
| | PHI-275* | Ethics | 3 | | COM-121 or COM-122 | F/Sp | AU |
| MATHEMATICS: 3 credits | | | | | | | |
| | MAT-165 | Trigonometry | 3 | X | MAT-160 or by math placement score | | QR/CA |
| NATURAL/PHYSICAL SCIENCES: 4 credits | | | | | | | |
| | PHY-150 | Applied Physics | 4 | X | COM 061 or ESL 060, MAT-110, -160, or -165 | F/Sp | SR |
| SOCIAL SCIENCES: 3 credits | | | | | | | |
| | SOC-130* | Sociology | 3 | X | COM-061, COM-050/1 | All & OL | CU |

*Sections of these courses offered in the Honors Program, check <http://www.racc.edu/Academics/Honors/courses.aspx> for details.

| ^Code | This course fulfills the Core Competency for: |
|-------|---|
| WC/IL | Written Communication/Information Literacy |
| OC | Oral Communication |
| QR/CA | Quantitative Reasoning/Critical Analysis |
| CU | Cultural Understanding |
| AU | Aesthetic Understanding |
| SR | Scientific Reasoning |
| TC | Digital/Technical Competence |



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|--|--|------------------------|--|
| Program: Machine Tool Technology AAS (MTT.AAS) | | Division: Science/Math | |
| Student: | | ID#: | |

MAJOR REQUIREMENTS (42 credits)

| √ | Course# | Course Name | Cr. | Req. | Pre-requisites | Sem. | Grade |
|--|---------|--|-----|------|------------------------------|------|-------|
| | MTT-100 | Basic CNC Machine Operation – OSHA Certification | 5 | X | MAT-020, COM-021 | ALL | |
| | MTT-105 | Introduction to Machining | 3 | X | MAT-020, COM-021 | ALL | |
| | MTT-107 | Engineering Graphics | 2 | X | MTT-132 | ALL | |
| | MTT-110 | Basic Machine Tools | 3 | X | MAT-020, COM-021 | ALL | |
| | MTT-132 | Blueprint Reading | 3 | X | MTT-105, MTT-110 | ALL | |
| | MTT-157 | Turning Technology - Level 1 | 3 | X | MTT-105 | ALL | |
| | MTT-158 | Milling Technology - Level 1 | 3 | X | MTT-105 | ALL | |
| | MTT-180 | CNC Programming | 3 | X | MAT-165 | ALL | |
| | MTT-185 | CNC Milling - Level 1 | 3 | X | Co-requisite: MTT-212 | ALL | |
| | MTT-212 | Milling Technology - Level 2 | 3 | X | MTT-158 | ALL | |
| | MTT-225 | Turning Technology - Level 2 | 3 | X | MTT-157 | ALL | |
| | MTT-272 | CNC Milling - Level 2 | 3 | X | MTT-185 | ALL | |
| | MTT-288 | CAM Programming | 3 | X | MTT-180 | ALL | |
| Choose at least one elective course listed below | | | | | | | |
| | MTT-221 | Grinding | 3 | | MTT-110, MTT-158 | ALL | |
| | MTT-265 | CNC Fixture Design | 2 | | MTT-132, MTT-107, MAT-165 | ALL | |
| | MTT-276 | Advanced CNC Turning | 3 | | MTT-180 | ALL | |
| | MET-110 | Manufacturing Fundamentals | 3 | | | ALL | |

Advisor's Contact Information:

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