

2024-25 ACADEMIC COURSES

NCT 221 : ADV MANUAL PROGRAM/NC TOOL OP

In this course, students will learn complex cutter path generation, cutter compensation, repetitive programming, multi-quadrant circular interpolation, three axis interpolation, threading macros, and other advanced programming techniques are practiced. Geometry creation using computer-aided design/computer-aided manufacturing (CAD/CAM) software will be presented and used in this class. The class format is similar to that of NCT 121. Students with experience equivalent to NCT 121 may contact the instructor for permission to waive the prerequisite. This is the second of a two-course study of manual programming and computer numerical control (CNC) Machine Tool Operation. Level I Prerequisite: Academic Reading and Writing Levels of 6; Academic Math Level 4; NCT 121 and NCT 123, minimum grade "C"

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Description	Hours
Credits	4
Lecture Hours	30
Clinical Hours	0
Lab Hours	60
Other Hours	0
Total Hours	90

Accurate as of 04/25/2025 Information is subject to change without notice.