Program of Study

Week 1

* Present and review Math Vocabulary List #1
* Review Math properties and Order of Operations handout
* Review Safety Notes (IMT 220 course)
* Review G Code & M Code information
* Review how to use D2L
* Assessment: Write a simple process essay

Week 2

* Safety pre-quiz
* Review Math Vocabulary List #1
* Introduce Math Vocabulary List #2
* Review Rules for Exponents and Rules for Roots
* Review math assignments for the week: basic algebra review
* Complete “Teamwork” handout in small groups; class discussion follows
* Review Revolved Features and Mirroring (IMT 110)
* Identify and develop the elements of a short essay (p.1-11)

Week 3

* Review Math Vocabulary List #2
* Review Significant Numbers and Scientific Notation
* Introduce CNC Vocabulary List #1
* Identify and explain how to Context Clues to determine unfamiliar vocabulary
* Review IMT 220 notes: Introduction to CNC and the Cartesian Coordinate System
* Review for Algebra Test (IMT 107)
* Review Part Modeling (IMT 110); watch videos for Exercise 1 and 2
* Unity and Coherence in our writing (p.12-19)

Week 4

* Introduce Math Vocabulary List #3
* Review Equations including use of FOIL method
* Review CNC Vocabulary List #1
* Review Sweeps and Circular Patterns (IMT 110)
* Review video for Exercise 3 (IMT 110)
* Editing Your Writing (p.20-25) and Review of essay elements (p.26-30)
* Review How to summarize information effectively

Week 5

* Review Math Vocabulary List #3
* Quiz on Math Vocabulary (Algebra terms) Lists #1-3
* Discuss and practice doing dimensional analysis problems
* Research CNC professions in small groups
* Practice using synonyms and antonyms as context clues
* Review video for Exercise 4 (IMT 110)
* Writing Process Essays: Introduction (p.32-35)

Week 6

* Introduce Math Vocabulary List #4 (Geometry)
* Discuss and practice solving word problems
* Review Building Assemblies (IMT 110)
* Review video for Exercise 5 (IMT 110)
* Writing Process Essays: Organization and Example (p.36-40)
* Practice using Examples and Explanations as context clues
* Review how to use online resources including dictionary and Thesaurus
* Quiz on CNC List #1 Vocabulary

Week 7

* Review Math Vocabulary List #4
* Introduce Math Vocabulary List #5 (Geometry: Triangles and Polygons)
* Discuss and practice Geometry Principles #1-5
* Review video for Exercise 6
* Review IMT 220 Notes on Canned Cycles
* Assessment: Process Essay
* Discuss the importance of good time management skills for the workplace

Week 8

* Review Math Vocabulary List #5
* Introduce Math Vocabulary List #6 (Geometry: Circles)
* Discuss and practice Geometry Principles #7-10
* Review for IMT 110 Mid-term Exam
* Writing Process Essays: Using Time Clauses and Passives (p.48-52)
* Practice using Comparison as a context clue
* Reading Strategies: Previewing the Text

Week 9

* Review Math Vocabulary List #6
* Discuss and practice Geometry Principles #11-21
* Review notes on Intro to CAE and watch video for Exercise 7 (IMT 110)
* Business Writing: Email Etiquette
* Practice using various context clues

Week 10

* Quiz on Math Vocabulary (Geometry terms) Lists #4-6
* Review for Geometry Test
* Review notes on CAM and watch video for Exercise 8 (IMT 110)
* Business Writing: Email Etiquette
* Reading strategies: Skimming the text

Week 11

* Introduce Math Vocabulary List #7 (Trigonometry)
* Discuss and practice Trigonometric Functions
* Review notes on Using “Built-in” Calculator, Pythagorean Theorem, Right Triangles & Trig (IMT 110)
* Reading Strategies: Scanning the Text

Week 12

* Review Math Vocabulary List #7
* Discuss and practice Complementary Angles and Right Triangles
* Review notes on G-code Editing (IMT 110)
* Reading Strategies: Intensive Reading

Week 13

* Review Math Vocabulary List #7
* Discuss and practice Machine Problems
* Resume Assignment: Tips on Writing a CNC Resume

Week 14

* Discuss and practice Cartesian Coordinate System
* Practice using the Law of Sines and Cosines
* Quiz on Math Vocabulary (Algebra terms) List #7
* Review how to find/use helpful CNC websites including job forums, job listings, machine info, etc.
* Reading Strategies: Critical Reading

Week 15

* Review for Trigonometry Exam
* Discuss Final project for CIM (group presentation)
* Complete Resume assignment
* Resume Assignment: Writing a Cover Letter for CNC position

Week 16

* Review for Tech Math Final Exam
* Assessment: Process essay

Week 17

* Work Ethic presentation
* Reading Strategies: Reading to Remember
* Practice filling out job application online
* Discuss how to engage in self-assessment
* Discuss proven strategies of problem-solving and decision-making