

**CAMPUS NAME:** Ankeny

**COURSE TITLE:** Electrical Discharge Machining (EDM)

**COURSE NUMBER:** MFG-381

**SECTION NUMBER & CRN:** Section 1 CRN 20187

### **INSTRUCTOR INFORMATION**

**NAME:** John Neumayer

**EMAIL ADDRESS:** jfneumayer@dmacc.edu

**PHONE NUMBER:** office (515) 964-6416

cell (515) 210-8665 (voice or text)

**FAX NUMBER:** 515-964-6815

**OFFICE LOCATION:** Building 3E Room 103F

**OFFICE HOURS/APPOINTMENTS:** Posted outside my office

### **COURSE INFORMATION**

**SEMESTER/YEAR:** Spring 2017

**DATE SYLLABUS CREATED AND/OR REVISED:** 2017

**DAYS & TIME & LOCATION:** BLDG 3E Room 122, 104,106 (106 is shared with other classes)

Jan. 9 – May 4 Mon. – Thurs. 9:05am – 10:05pm

**COURSE DESCRIPTION & CREDITS:** <http://www.dmacc.edu/courses/crsrod.asp>

**PREREQUISITES:** None – must be able to prep workpieces for EDM in a machining lab

**COURSE COMPETENCIES:** <https://go.dmacc.edu/competencies>

### **TEXTBOOKS & MATERIALS**

**REQUIRED TEXTBOOKS & ISBN:** three books provided: Charmilles Roboform 22 manual, Brother HS-3600 manual, The Complete EDM Book (book ,videos, web content)

**REQUIRED MATERIALS:** tools per program requirements.

<https://www.dmacc.edu/programs/toolanddie/Pages/tools.aspx>

calculator, notetaking material, access to online content (Blackboard)

## COURSE POLICIES

### ATTENDANCE/PARTICIPATION:

- A) Attendance will be taken at the start of each class and optionally during the class to determine one of two conditions.
  - 1) Present for class
  - 2) Absent for class the student must attend all scheduled hours of a class session to avoid an absence.
  
- B) Break times are scheduled and everyone must abide by the listed times. If someone must leave an area they must inform their instructor. Failure to do so may result in an absence being recorded.
  
- C) Exceptions: When all projects and objectives for a class are met the student, with the instructor's approval may be excused from remaining class sessions.
  
- D) Students are provided with a maximum of two occasions to make-up test(s). On either occasion there will be a reduction of the make-up test grade by 10 percent. Any make-up test will be scheduled at the convenience of the instructor. If an unavoidable absents is known in advance, the student may take the scheduled exam prior to its regularly scheduled time, without incurring a grade penalty.  
Unannounced quizzes issued during class cannot be made-up.

### GRADING CRITERIA:

See Tool and Die policy handout: Safety and Organizational Rules

Quizzes:	Daily / as needed 5 – 20 points
Tests	Wire EDM test 100 points Sinker EDM test 100 points
EDM projects	Wire EDM die block 100 points Sinker EDM stripper 100 points

The following grading scale will be used for all MFG, CAD-139, CAD-184 courses:

A	= 96.00% - 100%
A-	= 94.00% - 95.99%
B+	= 91.90% - 93.99%
B	= 89.80% - 91.89%
B-	= 87.80% - 89.79%
C+	= 85.70% - 87.79%
C	= 81.80% - 85.69%
C-	= 79.80% - 81.79%
D+	= 77.70% - 79.79%
D	= 74.81% - 77.69%
D-	= 72.80% - 74.80%

## **SPECIAL SCHEDULE:**

We will spend the first half of the semester in the classroom covering the theory on the wire and sinker. After the theory is covered and the demonstrations are complete we will no longer meet in the classroom. During the latter half of the semester will be general lab time with somebody setting-up on each of our two EDM machines during EDM time and the others can working in open lab or computer lab. The EDM will also be utilized during our Advanced Diemaking lab course.

**CLASSROOM CONDUCT:** <https://go.dmacc.edu/handbook>

**MISSED EXAMS:** See item “D” in the attendance section

**LATE ASSIGNMENTS: Last day to machine is May 1st, 2017**

**EXTRA CREDIT:** None

**STUDY EXPECTATIONS:** Some study time will be provided during class. Students are expected to spend additional study time as required to maintain the goals he or she has set.

**WEATHER POLICY:** Individual circumstances such as health, childcare, rural roads, distance from the College, etc. can vary greatly among students and staff. It is always DMACC’s goal to provide safe learning conditions, as well as provide the opportunity for students to attend classes when the vast majority is able to safely attend. The final decision to come to College can only be made by the individual student based on their specific extenuating circumstances that may make it unsafe for them to travel. During adverse weather, DMACC faculty is considerate of students who are unable to attend classes due to unique extenuating circumstances. Notification of Campus/College closures will be sent out through the DMACC RAVE Alert System, posted to the DMACC webpage at [www.dmacc.edu](http://www.dmacc.edu), and where possible sent to local media.

Click & delete row if addendum being used with weather information.

**CLASS CANCELLATION PROCEDURE:** Tool and Die classes are seldom cancelled unless the college is closed. If it becomes necessary to cancel a class students will be notified via their DMACC e-mail.

**ACADEMIC DISHONESTY/PLAGIARISM:** Cheating by copying or any electronic device will not be tolerated. See Tool & Die Syllabus Addendum and Program Policies

It is important for you to be familiar with and follow DMACC’s Academic Misconduct policy. Students are encouraged to review DMACC’s Academic Misconduct Policy on-line at <https://go.dmacc.edu/handbook/polprocedures/pages/academicmisconduct.aspx> or in the DMACC Student Handbook.

**COURSE SPECIFIC (LAB) SAFETY PROCEDURES:** See Tool & Die Syllabus Addendum and Program Policies

## DMACC INFORMATION

**INSTRUCTOR HOME PAGES:** <http://www.dmacc.edu/instructors>

**ADD/DROP DATES:** [https://go.dmacc.edu/registration/pages/add\\_drop.aspx](https://go.dmacc.edu/registration/pages/add_drop.aspx)

**REFUND POLICY:** <https://go.dmacc.edu/registration/Pages/refund.aspx>

## SUPPORT SERVICES

**SERVICES FOR STUDENTS WITH DISABILITIES:**

[https://go.dmacc.edu/student\\_services/disabilities](https://go.dmacc.edu/student_services/disabilities)

Any student with a documented disability who requires reasonable accommodation should contact the Disability Services Coordinator at **515-964-6850** or the counseling & advising office on any campus to apply for services.

## COURSE SYLLABUS

**DISCLAIMER:** “This syllabus is representative of materials that will be covered in this class; it is not a contract between the student and the institution. It is subject to change without notice. Any potential exceptions to stated policies and requirements will be addressed on an individual basis, and only for reasons that meet specific requirements. If you have any problems related to this class, please feel free to discuss them with me.”

**NONDISCRIMINATION POLICY:** Des Moines Area Community College shall not engage in or allow discrimination covered by law. This includes harassment based on race, color, national origin, creed, religion, sex (including pregnancy and marital status), sexual orientation, gender identity, age, disability and genetic information. Veteran status in educational programs, activities, employment practices, or admission procedures is also included to the extent covered by law. Individuals who believe they have been discriminated against may file a complaint through the College Discrimination Complaint Procedure (ES4645). Complaint forms may be obtained from the Campus Provost's office, the Academic Dean's office, the Judicial Officer, or the EEO/AA Officer, Human Resources. For Title IX questions and concerns contact 515-964-6850.

Students who wish additional information or assistance may refer to Student Services procedure ES 4645 located at [https://go.dmacc.edu/student\\_services/int](https://go.dmacc.edu/student_services/int). Click Policies & Procedures.

Employees and applicants who wish additional information or assistance may contact the **EEO/AA Officer**, Human Resources, Bldg. 1 on the Ankeny Campus, or refer to HR Procedures 3000, 3005, 3010, 3015, and 3020 at <http://www.dmacc.edu/hr/hrpp.asp>

**Accommodations:** The Program Development/Academic Support Services Director is the official Student Accommodation Officer/Section 504/ADA Coordinator for DMACC. The ADA Coordinator's office is located in Bldg. 6-10E on the Ankeny Campus and may be contacted by voice (515-964-6857). The ADA Coordinator is responsible for ensuring that the college complies with federal regulations that guarantee qualified students with disabilities equal access to all programs and services. Any student, faculty, or staff member



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