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**Instructor - Mathematics (4 positions)**  
Madison Area Technical College

Closing Date: 02-15-2012

**Job Summary/Basic Function**  
**EMPLOYMENT CONDITIONS:**

These are full time positions beginning the 2012-2013 academic year. Starting salary \$51,291 - \$85,548\* depending on qualifications and experience. Salary is based on a nine-month teaching contract.

Madison College provides a generous benefit package. These positions are covered by a collective bargaining agreement, including a fair share provision. Newly hired instructors serve a three-year probationary period.

Location: Truax Campus

Start date: August, 2012.

**ORGANIZATIONAL FUNCTION AND RELATIONSHIPS:**

Responsible for instruction in Mathematics at the college transfer and vocational levels. Instructors develop learner-centered instructional strategies, collaborative curriculum, and assessment instruments for continuous improvement. Instructors participate in college service activities at the department, center and college levels.

This position reports to the Dean, School of Arts & Sciences.

**Qualifications:**

(Education, Experience)

1. Master's Degree in Mathematics; or Master's Degree in related field with a minimum of 18 graduate credits in Mathematics from an accredited public or private institution. Course work must include a minimum of eight credits of Calculus.

Closely related fields to mathematics include, but are not limited to, actuarial science, mathematical and quantitative methods in economics, statistics, operations research, and physics.

2. One (1) year (2000 hours) of non-teaching work experience. Work experience must come from the categories listed on the Wisconsin Technical College system website.

<http://systemattic.wtcsystem.edu/certification/occcexp/804-00-0.doc>

Position Type: Faculty

Department: Arts & Sciences

#### Required Applicant Documents

Resume

Cover Letter

Transcripts

#### Special Instructions to Applicants

A completed application consists of the above stated required documents and typed responses to the following six (6) questions. Failure to submit all materials will result in disqualification.

\*\*\* Please attach your answers as a pdf or MSWord document. Limit your answers to no more than four (4) pages total \*\*\*.

1. Madison College has a diverse student population. Describe your approaches in dealing with students of various backgrounds. Provide specific examples.
2. Describe how technology can be used effectively to teach math. Provide specific examples.
3. Describe what you currently consider to be the best pedagogical practices in mathematics education, and how you apply these practices in the classroom.
4. Imagine that you have been asked to design the curriculum for a math class that prepares occupational students for basic courses in chemistry and physics. Describe how you would accomplish this task.
5. Describe your approach to, experience with, or training in flexible delivery formats, like online, hybrid, accelerated, or ITV/Telepresence. Provide specific examples.
6. Use up to two of the four pages to describe how you would introduce the topic of function transformations by outlining the content you would cover and by providing specific teaching strategies and activities.

**NOTE:** For question 6, assume you are teaching a College Algebra class in a 50 minute class period. Focus on what would happen in the classroom and what the student experience would be. Be sure to cite any sources from which you borrow ideas for your lesson.

If you are chosen for an interview, you will be asked to give a 15 minute teaching demonstration excerpted from this plan.

**Essential Duties:**

The following duties are typically expected of this position. These are not to be construed as exclusive or all-inclusive. Other duties may be required and assigned.

1. Instruct students in Mathematics, including but not limited to the following courses: Introduction to College Mathematics, Elementary Algebra with Applications, Intermediate Algebra, College Algebra, Trigonometry, Calculus, Statistics, Technical Mathematics, Machine Tool Mathematics, and Vocational Mathematics.
2. Develop and implement learner-centered instructional strategies.
3. Assist and advise students with assignments, tests, grades, course content and other academic matters.
4. Assess student progress and evaluate student performance.
5. Work actively with college personnel in developing student retention and recruitment strategies, including strategies focused on minority students.
6. Collaborate with other programs and areas of instruction to develop and implement instructional and curriculum articulation strategies.
7. Design curriculum to: a. instruct in a variety of traditional and non-traditional formats, b. meet student and community needs in a multicultural environment.
8. Comply with college policies and procedures regarding student testing, record keeping, advanced standing, grading and maintaining office hours for student assistance and advising.
9. Assist students in learning experiences outside the classroom such as internships, work/study opportunities and community service.
10. Maintain certification as an instructor with the Wisconsin Technical College System
11. Comply with all aspects of Board policies, work rules, and the appropriate collective bargaining agreement.

12. Attend division, department and other college meetings.
13. Participate in appropriate staff development activities such as diversity awareness, technology training, etc.
14. Demonstrate a commitment to the college values of excellence, respect and integrity.

**Knowledge, Abilities, and Skills:**

1. Knowledge of and experience with current educational methods and strategies; learner-centered instruction, assessment, evaluation, collaborative techniques; and strategies that address closing the gap in student access and achievement across race, gender and disability.
2. Ability to use technology to deliver high-quality instruction. (i.e. online and hybrid course formats, course software such as Blackboard, video, interactive television, etc.)
3. Knowledge and ability to infuse multicultural perspectives into course content and delivery.
4. Demonstrated success in working with populations having diverse socioeconomic and racial backgrounds and persons with physical and/or learning disabilities.
5. Ability to develop curriculum, including identification of competencies, development of learning activities, and assessment tools.
6. Skill in oral and written communication.
7. Ability to interact with business, industry, other educational institutions, and government agencies to establish partnerships.

**To apply, visit <http://apptrkr.com/223622>**

Do you want to work for Madison Area Technical College? We offer great career opportunities, competitive salaries and excellent benefits. For more information, visit <http://matcmadison.edu/jobs>