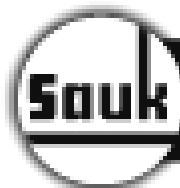


*College  
Math Prep*



**Sauk Valley**  
Community College



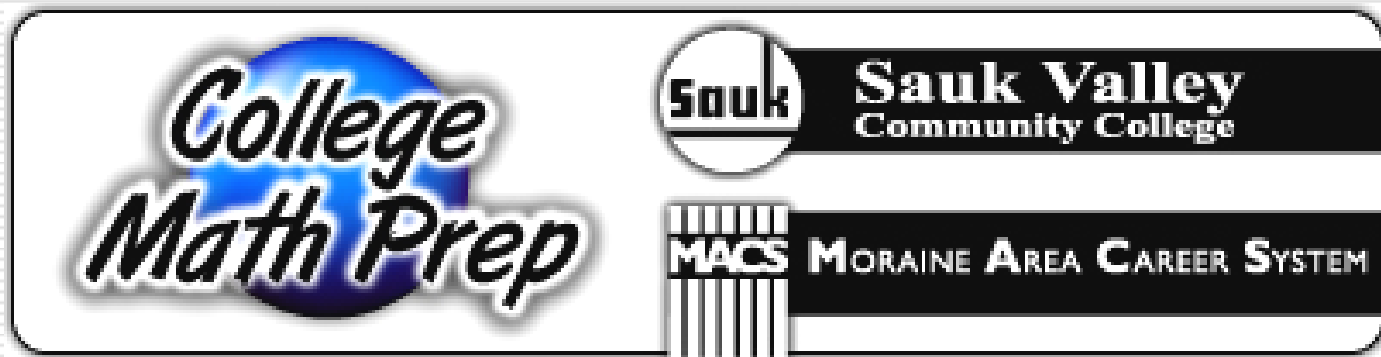
**MORaine AREA CAREER SYSTEM**

# MathPrep

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Issue:

Between 60-70% of students entering college are unprepared for college math classes.



# History of Project

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- Three years ago Sauk Valley Community College began a multi-pronged project to create a process to enhance high school students' success in math.
    - Community college faculty and high school faculty met for an in-service opportunity to begin communication and to develop a peer relationship.
    - Both faculties began the alignment of high school and college math coursework.
    - Textbooks were shared and discussed occurred at this in-service day.
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# Fall 2005

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- The relationship between college faculty and high school faculty continued.
    - Annual meetings were held at the college to continue the math sequencing discussions.
    - Dual Credit/Enrollment initiatives developed.
    - High School math requirements were discussed.
    - Remediation issues arose and who was responsible for the students performance??
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# Fall 2006

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- Included Moraine Area Career System and their member schools
  - Inservice for area high school math faculty (Sauk and Moraine)
  - Dual credit math classes were offered by Sauk Valley Community College
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# Evolution of the MATHPREP website

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- Something was needed to help improve the high school math test scores.
  - College faculty complained about all the students who entered college below the Algebra II level.
  - A tool (MATHPREP) was needed to help students practice their math problems.
  - The website needed to be open to all students for drill and practice of math concepts covered by the high school PSAE test and the college's Compass exam.
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# What is MathPrep?

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- <http://mathprep.svcc.edu>
  - A site for practice and assessment of math deficiencies in the following six core areas:
    - Areas defined by Compass/ACT
      - Pre-Algebra
      - Elementary Algebra
      - Intermediate Algebra
      - College Algebra
      - Trigonometry
    - Area defined by PLAN and other tests
      - Geometry
-

# Audience who uses the site

(High school students and prospective/returning college students)

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- ❑ Students take practice exam set(s) from any of the six core areas.
  - ❑ Questions presented are from a database of questions chosen randomly. Each random selection of questions gives the students problems to work.
  - ❑ Questions are presented with test results and a categorical breakdown within the results of the test to assist in defining deficient areas.
  - ❑ In many areas, students receive feedback on their incorrect responses.
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# Audience who can have their own MATHPREP web site

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- High school math faculty, counselors, and tech prep coordinators
    - **Each can track the progress of their classes or individual student's proficiency and mastery of the subject by exam area and category within that exam.**
  - Tech Prep coordinators and counselors can send students who are not registered for a math class to the site to review for tests/exams.
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# Audience

High school/College assessment teams

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## □ Assessment

- If students enter their student ID when enrolling on the site, data can be exported and “results” in a spreadsheet that can be placed in Excel or integrated locally with your school’s ERP.
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# First year faculty comments:

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## □ Faculty comments.

- Speaking in regard to the categorization feature, one faculty wrote, “It has really been helpful to be able to see what areas students need help.”
  - Another wrote: “I am able to modify classroom instruction based upon finding from this tool and then through “retesting” see if it made a difference.”
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# This Year's addition to MathPrep

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- ❑ Additional questions supplied by Math and Technical faculty
  - ❑ Question all have feedback for an incorrect response
  - ❑ More student friendly interface for creating ID and receiving results
  - ❑ Continue to work on faculty enhancements
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# Outcomes from MathPrep

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- Fiscal year 2006
    - High school graduates
      - 47% math remediation rate in cohort group
  - Fiscal year 2005 shows much improved rate
    - High school graduates
      - 49% math remediation rate in cohort group
  - Fiscal year 2004 – 1<sup>st</sup> year of MathPrep
    - High school graduates
      - 55% math remediation rate
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# Before MathPrep

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## Before MathPrep

- Fiscal year 2002
    - High school graduates
      - 78.1% math remediation rate
  - Fiscal year 2001
    - High school graduates
      - 86.2% math remediation rate
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# Cavets

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- Still too early to tell-More work yet to do.
    - Other contributing factors to early success
      - Movement to a mandatory 3and/or 4 year math requirement by many high schools.
      - Work of Tech Prep in bringing high school and college math instructors together.
      - Work of Tech Prep in aligning math between high school and the community college.
      - Low PSAT high school math scores that must show improvement.
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# What MathPrep has provided

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- ❑ The ability of both students and faculty to better define and measure learning objectives.
  - ❑ To measure competency and assist in developing a path of study prior to future testing in any of the math placement exams.
  - ❑ Awareness of needed improvement in the six math core areas.
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# Important Facts

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- The more prepared students are when entering college: the more likely they are to succeed.
  - The fewer the semesters they spend in remediation prior to entering the college curriculum the more likely they are to stay engaged and complete their course of study and advance toward earning a degree.
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