

**VALENCIA COMMUNITY COLLEGE  
STUDENT LEARNING OUTCOMES ASSESSMENT – PLANNING PHASE  
DEPARTMENTAL ACTION PLAN FOR 2003-2004**

The purpose of this form is to provide specific guidelines for the design and development of a systematic **Student Learning Plan**. Each plan will include (in Part 1) a general description, purpose statement, Strategic Learning Plan linkage, target audience, student learning outcome(s), research perspective, measurement techniques-indicators as well as (in Part 2) baseline data, projected outcomes, data collection methods, time frame, participants, needed resources and projected impact on continuous improvement. A distinct but parallel form, **Student Learning Outcomes Assessment – Evaluation Phase** will be completed at the conclusion of each annual cycle. The overall process will effectively review and document specific measures of educational effectiveness.

**DEPARTMENT/UNIT:** Science, Math, Business, and Technical Programs – Osceola Campus

**DEAN:** Tim Grogan

**EXTENSION:** 4110

**MAIL CODE:** 6-6

**Part 1: WHAT is your Student Learning Plan and WHY have you selected it?**

<p><b>1. GENERAL DESCRIPTION.</b> Brief overview of plan. What will you do to assess whether learning has occurred?</p>	<p>Collect and analyze data that will show if student scores on the exit exam for MAT 0012 are accurate predictors of success in the next level math course, MAT 0024.</p>
<p><b>2. PURPOSE STATEMENT.</b> What student learning do you intend to examine? What do you hope to learn? Do you have a research hypothesis?</p>	<p>If exit exam scores in MAT 0012 are good predictors of grades and exit exam scores in MAT 0024.</p>
<p><b>3. STRATEGIC LEARNING PLAN LINKAGE.</b> Which Strategic Learning Plan goal(s) does this plan address? Use goals/outcomes identified in the current Strategic Learning Plan.</p>	<p>1-A: Evaluate learning results; answer question “How do we know” students have learned.</p>
<p><b>4. TARGET AUDIENCE.</b> Which students and or other members of the learning community will this plan affect?</p>	<p>All students who take MAT 0012. At the Osceola Campus, this is approximately 375 students per semester.</p>
<p><b>5. STUDENT LEARNING OUTCOMES.</b> Which student learning outcome(s) will this plan affect? Use student learning outcomes identified in Assessment Planning Guide.</p>	<p>The minimum level math content competencies.</p>
<p><b>6. RESEARCH PERSPECTIVE.</b> What previous research or benchmark information is available to support this plan? How can you learn from what has been done before?</p>	<p>The MAT 0012 exit exam is new and still being piloted. No previous studies have been done on it.</p>
<p><b>7. MEASUREMENT TECHNIQUES - INDICATORS.</b> What will you measure? What types of data will help you assess student outcomes?</p>	<p>Scores on the MAT exit exam; correlation to grades and state exam scores in MAT 0024.</p>

**VALENCIA COMMUNITY COLLEGE  
STUDENT LEARNING OUTCOMES ASSESSMENT  
DEPARTMENTAL ACTION PLANS FOR 2003-2004**

**Part 2: HOW will you implement this Student Learning Plan?**

<b>8. BASELINE DATA.</b> What is your baseline? If none exists, how will you establish a baseline?	No baseline exists. This plan will create new findings which can be used to establish baselines.
<b>9. PROJECTED OUTCOMES.</b> What is your target? What would you consider success?	The target is to discover what, if any, score on the exit exam can be used as an indicator of 100% success rate in MAT 0024.
<b>10. DATA COLLECTION.</b> What is your method of data collection? How will you gather information?	Retrieve historical data of individual students and their exit exam scores; measure their enrollment and grades (including withdrawals) and state exit exam scores in MAT 0024.
<b>11. TIME FRAME.</b> What is your time frame? By when will you collect the data?	Fall Term (200410) to collect data; Spring Term (200420) to analyze and report findings.
<b>12. PARTICIPANTS.</b> Who will you involve in the work?	Osceola Campus Prep Math Coordinator; Institutional Research.
<b>13. RESOURCES NEEDED.</b> What resources will you need to implement this plan? Consider time, information, expertise, money, equipment, supplies and other forms of support.	Will use regular resources; this project will be a part of regular job duties. However, will need time of IR staff to assist with database collection and report of student records.
<b>14. PROJECTED IMPACT ON CONTINUOUS IMPROVEMENT.</b> How will you apply what you learn through this study toward the improvement of your students' learning outcomes?	Decide if the current cut-scores on the exam are appropriate; adjust as appropriate.

VALENCIA COMMUNITY COLLEGE  
STUDENT LEARNING OUTCOMES ASSESSMENT – EVALUATION PHASE  
DEPARTMENTAL ACTION PLAN FOR 2003-2004

The purpose of this form is to provide specific guidelines for a systematic response to a previously submitted **Student Learning Plan**. Each plan component listed below requires a description of any modifications to the original plan (in Part 1) as well as progress to date (in Part 2). A distinct but parallel form, **Student Learning Outcomes Assessment – Planning Phase** was completed at the beginning of the annual cycle and should be attached to this form to establish a continuous record. The overall process will effectively review and document specific measures of educational effectiveness.

**DEPARTMENT/UNIT: Science, Math, Business and Technical Programs – Osceola Campus**

**DEAN: Time Grogan**

**EXTENSION: 4110**

**MAIL CODE: 6-6**

**Part 1: WHAT was your Student Learning Plan and was your rationale effective?**

<b>1. GENERAL DESCRIPTION.</b> Brief overview of any modifications in the plan.	No modifications. Collect and analyze data that will show if student scores on the exit exam for MAT 0012 are accurate predictors of success in the next level math course, MAT 0024.
<b>2. PURPOSE STATEMENT.</b> What student learning did you intend to examine? Were there any modifications to your research hypothesis?	If exit exam scores in MAT 0012 are good predictors of grades and exit exam scores in MAT 0024.
<b>3. STRATEGIC LEARNING PLAN LINKAGE.</b> Which Strategic Learning Plan goal(s) did this plan address? Use goals/outcomes identified in the current Strategic Learning Plan.	1-A: Evaluate learning results; answer question “How do we know” students have learned.
<b>4. TARGET AUDIENCE.</b> Which students and or other members of the learning community did this plan affect?	All students who take MAT 0012. At the Osceola Campus, this is approximately 375 students per semester.
<b>5. STUDENT LEARNING OUTCOMES.</b> Which student learning outcome(s) did this plan affect? Use student learning outcomes identified in Assessment Planning Guide.	The minimum level math content competencies.
<b>6. RESEARCH PERSPECTIVE.</b> What previous research or benchmark information was available to support this plan? How did you learn from what has been done before?	The MAT 0012 exit exam is new and still being piloted. No previous studies have been done on it.
<b>7. MEASUREMENT TECHNIQUES - INDICATORS.</b> What did you measure? What types of data helped you assess student outcomes?	Scores on the MAT 0012 exit exam; correlation to grades and state exam scores in MAT 0024.

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STUDENT LEARNING OUTCOMES ASSESSMENT  
DEPARTMENTAL ACTION PLANS FOR 2003-2004**

**Part 2: HOW well did you implement this Student Learning Plan?**

<p><b>8. BASELINE DATA.</b> What was your baseline? If none existed, how did you establish a baseline?</p>	<p>No baseline existed. This plan created new findings that are being used to establish baselines.</p>
<p><b>9. PROJECTED OUTCOMES.</b> What was your target? What do you consider success at this stage?</p>	<p>The target was to discover what, if any, score on the exit exam can be used as an indicator of 100% success rate in MAT 0024. Such a target was not found, however a cut score was determined below which students were nearly 100% <u>not</u> successful.</p>
<p><b>10. DATA COLLECTION.</b> What was your method of data collection? How did you gather information?</p>	<p>Retrieve historical data of individual students and exit exam scores; measure enrollment and grades (including withdrawals) and state exit exam scores in MAT 0024.</p>
<p><b>11. TIME FRAME.</b> What was your time frame? If you have not completed this assessment, when do you anticipate completion?</p>	<p>Fall Term (200410) to collect data; Spring Term (200420) to analyze and report findings.</p>
<p><b>12. PARTICIPANTS.</b> Who did you involve in the work?</p>	<p>Osceola Campus Prep Math Coordinator; Institutional Research; math department faculty and administrative assistant. Note: IR was quite valuable in acquiring historical data.</p>
<p><b>13. RESOURCES NEEDED.</b> What resources did you utilize to implement this plan? Consider time, information, expertise, money, equipment, supplies and other forms of support. Did you need additional resources (from your original plan)?</p>	<p>Used regular resources; this project was a part of regular job duties.</p>
<p><b>14. IMPACT ON CONTINUOUS IMPROVEMENT.</b> How have you applied what you learned though this study toward the improvement of your students' learning outcomes?</p>	<p>No statistical correlation (linear regression method) was found between MAT0012 exit exam scores and corresponding student performance on the MAT0024 exit exam for Osceola Campus students. Newly collected college wide data suggest a positive correlation between a MAT0012 exam score above 21 and successful completion of MAT0024C. Using 22 as a minimum passing score for the MAT0012 exam is now being considered, along with further analysis of why higher scores are not better predictive of success.</p>
<p><b>15. FOLLOW UP ACTIONS.</b> What follow up actions and activities are you planning to support ongoing improvement as a result of this study?</p>	<p>Continue to add to the database, increasing the sample size, and performing similar analyses to see what pattern, if any, emerges. Further study of the relationship between exit exam scores and actual math content knowledge is also being proposed.</p>