MTH024 Foundations for Statistics

Statistics Corequisite

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Stark State College

February 3, 2017
1. Statistics Pathways

2. Statistics Pathway with Corequisite

3. Corequisite Structure

4. Most Exciting Aspect of the Corequisite.....

5. Section Example
Background Information

- MTH094 (Intermediate Algebra II) was the prerequisite (ODHE Policy)
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- ODHE changed the policy, so we immediately made MTH093 (Intermediate Algebra I) the prerequisite
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ODHE offered grants for corequisite remediation, we wrote for and received the grant
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- ODHE changed the policy, so we immediately made MTH093 (Intermediate Algebra I) the prerequisite
- ODHE offered grants for corequisite remediation, we wrote for and received the grant
- We talked with faculty and administration from other institutions to determine their implementation
Current Placement

**Prealgebra I**
- ACT < 19
- COMPASS < 39
- Accuplacer < 40

**Intermediate Algebra I**
- ACT 19 to 21
- COMPASS 39 to 51
- Accuplacer 40 to 54

**Statistics**
- ACT > 21
- COMPASS > 51
- Accuplacer > 54
**Placement with Statistics Corequisite**

**Prealgebra I**
- ACT < 19
- COMPASS < 39
- Accuplacer < 40

**Statistics with Corequisite**
- ACT 19 to 21
- COMPASS 39 to 51
- Accuplacer 40 to 54

**Statistics without Corequisite**
- ACT > 21
- COMPASS > 51
- Accuplacer > 54
## Old Statistics Placement

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Corequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH093 (B or Better)</td>
<td>None</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Corequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 22 or better</td>
<td>None</td>
</tr>
<tr>
<td>COMPASS 52 or better</td>
<td>None</td>
</tr>
<tr>
<td>Accuplacer 55 or better</td>
<td>None</td>
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New Statistics Placement

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## New Statistics Placement

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Corequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH091 &amp; MTH092 (B or Better)</td>
<td>MTH024</td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Corequisite</th>
</tr>
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<tbody>
<tr>
<td>ACT between 19 to 21</td>
<td>MTH024</td>
</tr>
<tr>
<td>COMPASS between 39 and 51</td>
<td>MTH024</td>
</tr>
<tr>
<td>Accuplacer between 40 and 54</td>
<td>MTH024</td>
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</tbody>
</table>
Developmental Sequence

Lower Level Developmental Student

Semester 1
- Old Developmental Sequence
  - Prealgebra I
    - 8w1
  - Prealgebra II
    - 8w2

Semester 2
- New Developmental Sequence
  - Prealgebra I
    - 8w1
  - Prealgebra II
    - 8w2
  - Inter. Algebra I
    - 8w1

Semester 3
- Statistics
- Statistics with Corequisite
Developmental Sequence

Old Developmental Sequence:
- Semester 1: Inter. Algebra I
- 8w1
- Semester 2: Statistics

New Developmental Sequence:
- Semester 1: Statistics with Corequisite

Second Level Developmental Student:
- Semester 1
- Semester 2
Developmental Sequence with Statistics Corequisite

First Level Developmental Placement Sequence

- Semester 1
  - Prealgebra I
  - 8W1
- Semester 2
  - Statistics with Corequisite

Second Level Developmental Placement Sequence

- Semester 1
  - Statistics with Corequisite
Two credit developmental course that students who are not college ready are required to take when enrolling into Statistics.
Statistics with Corequisite

- Two credit developmental course that students who are not college ready are required to take when enrolling into Statistics.
- Replaces Intermediate Algebra I which effectively reduces time it takes for under-prepared students to take Statistics by a half of semester.
Corequisite Structure

- Class meets twice a week for 50 minutes for the whole semester.
Corequisite Structure

- Class meets twice a week for 50 minutes for the whole semester.
- The corequisite will meet immediately before or after lecture component with the same instructor for MOST students.
Corequisite Structure

- Emporium style classroom setting.
Corequisite Structure

- Emporium style classroom setting.
- Students would be required to complete 4 modules in order to pass the corequisite component.
  - Modules are newly developed specifically for the corequisite.
  - Modules will prepare students for upcoming lecture material.
  - Modules will have specific due dates based on when the lecture material it corresponds is going to be covered.
Current Prerequisite Curriculum

**Intermediate Algebra I (MTH093)**

1st Module
- Linear Equations
- Graphing
- Slope
- Intercepts

2nd Module
- Linear Inequalities
- Functions
- Absolute Value
- Set Operators

3rd Module
- Systems of Equations
- Substitution
- Elimination

4th Module
- Exponents
- Scientific Notation
- Polynomials
Corequisite Curriculum

Foundations for Statistics (MTH024)

1st Module
- Exponents
- Summations
- Fractions

2nd Module
- Sets
- Venn Diagrams
- Probability

3rd Module
- Estimation
- Inequalities
- Algebra

4th Module
- Graphing
- Scatter Plots
- Regression
Intermediate Algebra I curriculum prepares students for MTH125 (College Algebra) and MTH135 (Precalculus)
Curriculum

- Intermediate Algebra I curriculum prepares students for MTH125 (College Algebra) and MTH135 (Precalculus)
- Intermediate Algebra I curriculum can be a barrier for Statistics student completing their developmental sequence
Curriculum

- Intermediate Algebra I curriculum prepares students for MTH125 (College Algebra) and MTH135 (Precalculus)
- Intermediate Algebra I curriculum can be a barrier for Statistics student completing their developmental sequence
- Foundations for Statistics curriculum will better prepare students for Statistics
<table>
<thead>
<tr>
<th>Time</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 - 10:15</td>
<td><strong>MTH124</strong>*&lt;br&gt;Statistics (3 Credit hours)&lt;br&gt;CRN 11111&lt;br&gt;Capacity 12</td>
</tr>
<tr>
<td></td>
<td><strong>MTH124S</strong>*&lt;br&gt;Statistics with Corequisite Shell Course (5 credit hours)&lt;br&gt;CRN 11113&lt;br&gt;Capacity 15</td>
</tr>
<tr>
<td></td>
<td><strong>MTH124</strong>*&lt;br&gt;Statistics (3 Credit Hours)&lt;br&gt;CRN 11111&lt;br&gt;Capacity 15</td>
</tr>
<tr>
<td></td>
<td><strong>MTH024</strong>*&lt;br&gt;Corequisite (2 Credit Hours)&lt;br&gt;CRN 11112&lt;br&gt;Capacity 15</td>
</tr>
<tr>
<td>10:30 - 11:20</td>
<td><strong>MTH024</strong>*&lt;br&gt;Corequisite (2 Credit Hours)&lt;br&gt;CRN 11112&lt;br&gt;Capacity 15</td>
</tr>
</tbody>
</table>
Section Example

* Statistics lecture only. Students should be placed into this if the student has completed MTH093 with a B or better or ACT score of at least 22 or COMPASS score at least 52 or Accuplacer score at least 55.

** Statistics with Corequisite shell course (comprised of MTH124 and MTH024). Students who need the corequisite (Foundations for Statistics MTH 024) should enroll in the shell course only. Students needs to have completed MTH092 with a B or Better or ACT score between 19 and 21 or COMPASS score between 39 and 51 or Accuplacer score between 40 and 54. MTH124S will show two meeting patterns, one for the lecture and one for the corequisite.
*** Students enrolled in MTH124S will be administratively placed into both MTH124 and the corresponding MTH024 course after the add period. Note - MTH024 might meet before or after MTH124.

Students with majors that require MTH093 and/or MTH094 as part of their programs should still be enrolled in MTH093 and/or MTH094. These majors, most notably, include Physical Therapist Assistant and Medical Laboratory Technology.
Contact Information

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  - Office - E 208 M
  - Phone ext. - 5141
  - Email - kterakedis@starkstate.edu

- This presentation (and more information) will be posted at mystarkstate.edu ⇒ Faculty/Advisor tab ⇒ Math Advising information
  - username: info password: info