The Southeastern Dual Enrollment Mathematics courses provide high school students the opportunity to take college mathematics courses at their high schools, and to simultaneously receive credit on their high school and Southeastern transcripts. The courses are taught with Pearson Publishing’s MathXL software, and the credit is transferable to any institution that accepts mathematics credit from Louisiana universities. There are four courses available through Southeastern’s program. All four of the courses can be taught in a year-long format or in a semester-long format. The four courses are:

**MATH 161** – College Algebra. Credit: 3 hours. A study of families of functions and their graphs. Topics include linear, polynomial, rational, exponential and logarithmic functions.

**MATH 162** – Plane Trigonometry. Credit: 3 hours. Prerequisite: Math 161. The study of trigonometric functions. Topics include the trigonometric functions and their graphs, inverse trigonometric functions, trigonometric identities and trigonometric equations. Trigonometry and trigonometric functions will be used to model and solve real world applications.

**MATH 163** – Applied Calculus. Credit: 3 hours. Prerequisite: Math 161. An introduction to differential and integral calculus designed for non-STEM majors. Topics include limits, the derivative, applications of the derivative, antiderivatives and the definite integral. Polynomial, rational, radical, exponential and logarithmic functions will be studied.

**MATH 241** – Elementary Statistics. Credit: 3 hours. Prerequisite: Math 161. An introduction to statistical reasoning. Topics include graphical display of data, measures of central tendency and variability, sampling theory, the normal curve, standard scores, Student’s T and correlation techniques.

Any school participating in Southeastern’s Mathematics Dual Enrollment Program must offer College Algebra, as it is the prerequisite to all three of the other courses. The school may then choose to offer any combination of, or all of, the other three courses. Note that the new state high school course codes correspond directly to different combinations of these dual enrollment mathematics courses. Also note that Math 163 is a non-trig based calculus course, and as such, would not satisfy college degree requirements for students who major in engineering, mathematics, physics, chemistry, or computer science fields.

**Program Requirements**
**From the High School:**
- A computer lab must be available to all Dual Enrollment Mathematics classes a minimum of three times per week. This can be a hard-wired classroom, a wireless cart, or a classroom set of iPads. However, testing must be completed on school-owned desktop or laptop computers; tablets and student-owned laptops are not allowed for testing.

**From the Facilitator:**
- Any high school teacher who wishes to become a new Math DE facilitator must complete the New Facilitator/161 Workshop during the summer at Southeastern’s main campus in Hammond, regardless of previous experience with other universities.
- Any facilitator new to the program must complete both the morning and afternoon session of the DE Math Workshop at the end of the summer at Southeastern’s main campus in Hammond.
- Any facilitator already in our program who would like to offer a new course must complete the workshop for that new course during the summer at Southeastern’s main campus.
- Facilitators must attend the entire course-specific workshop and complete all associated assignments by the given deadlines to be considered eligible to facilitate that course. Missing a portion or portions of any required workshop will result in the facilitator being ineligible to facilitate that course.
- All facilitators (new and returning) must attend the DE Math Workshop at the end of the summer to copy all online course materials into MathXL (LMS system) and receive the current Program Guidelines.
- The facilitator(s) must ensure that their students meet the program requirements as outlined in the Dual Enrollment Student Eligibility Guidelines (website) and follow the guidelines of the program laid out in the Memorandum of Understanding (copy given to the principal).
- The facilitator must be certified in the discipline of the course they wish to facilitate.

**From the Students:**
• Students must be in the 11th or 12th grade.
• Have a high school cumulative GPA of ≥ 2.5 (transcript must be provided)
• Have an ACT/Pre-ACT composite ≥ 19, ASPIRE composite ≥ 430 or SAT/Pre-SAT composite ≥ 1010
• Students must have an ACT/Pre-ACT mathematics sub-score ≥19 or SAT/Pre-SAT mathematics sub-score ≥ 510 or ASPIRE mathematics sub-score ≥ 431 to enroll in a Mathematics course.
• Students must be enrolled in a high school Mathematics course while dual enrolled.

2019 Summer Workshops

<table>
<thead>
<tr>
<th>Session Title</th>
<th>Dates</th>
<th>Audience</th>
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</thead>
<tbody>
<tr>
<td>New Facilitator / College Algebra (161)</td>
<td>June 4 – 6 9AM-3PM</td>
<td>Mandatory for all new Dual Enrollment Math facilitators.</td>
</tr>
<tr>
<td>Elementary Statistics (241)</td>
<td>June 11 – 13 9AM-3PM</td>
<td>Mandatory for any facilitator wishing to offer 241 for the first time in the upcoming school year.</td>
</tr>
<tr>
<td>Applied Calculus (163)</td>
<td>June 18 – 20 9AM-3PM</td>
<td>Mandatory for any facilitator wishing to offer 163 for the first time in the upcoming school year.</td>
</tr>
<tr>
<td>Trigonometry (162)</td>
<td>July 23 – 24 9AM-3PM</td>
<td>Mandatory for any facilitator wishing to offer 162 for the first time in the upcoming school year.</td>
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</tbody>
</table>
| DE Math Workshop | July 29 All Facilitators 9AM-12PM  
Lunch (All Facilitators) 12-1PM  
New Facilitators 1-3PM | Mandatory for all Dual Enrollment Math facilitators. |

Notes:
• All Dual Enrollment math facilitators must complete or have completed the New Facilitator/161 workshop before they may attend another workshop or facilitate another Dual Enrollment math course.
• All facilitators new to our program must attend the New Facilitator/161 Workshop, regardless of previous experience with other universities.
• Any facilitator new to our program must facilitate Math 161 at his/her high school at least once before he/she will be allowed to facilitate any of our other courses.
• Once a facilitator has completed the workshop for a particular course, he or she is not required to repeat that workshop in subsequent summers. However, if a facilitator goes three or more school years without facilitating a particular course, then that facilitator will be required to attend the corresponding training again before being allowed to facilitate that course again.
• The only mandatory workshop for returning facilitators who do not wish to facilitate any new courses is the DE Math Workshop at the end of the summer.
• The DE Math Workshop must be repeated every summer.
• If a facilitator has never facilitated one of our DE courses, regardless of when the course-specific training was completed, then that facilitator is still considered “new” and must attend the afternoon session of the DE Math Workshop as well as the morning session.
• A facilitator is not considered eligible to facilitate a course unless he/she has attended the corresponding workshop in its entirety, completed all associated assignments, and attended the DE Math Workshop.