

## Associate of Arts Core/Degree Advising for Math Courses

ALL the following sequences require competency in arithmetic and basic algebra. Alg. CPT  $\geq 55$  and Arithmetic CPT  $\geq 55$  or SAT  $>500$ . Any additional pre-reqs are listed with each path below. Some general guidelines:

1. Students who **need MAT 070 and/or 080, but are interested in STEM (Science, Technology, Engineering or Math)** need to get developmental courses underway immediately!

2. **Those who place beyond MAT 080** should pick courses based on their interests. If the SAT or CPTs are high they may be able to place directly into trig or pre-calculus for example. Call math instructors re: direct placement into 162, 172, 175, 271.

3. The **Undecided who need MAT 070** should take MAT 70  $\rightarrow$  MAT **140**  $\rightarrow$  MAT **151**

4. The **Undecided who don't need MAT 070** but would need MAT 080 should take:

MAT **140**  $\rightarrow$  MAT **151**

### 141,142

Students who know or even think they may want to **teach elementary or middle school** should take MAT **141** in the fall and MAT **142** in the spring. This has an MAT 080 pre-req. or Alg. CPT  $\geq 75$ . We teach MAT 080 in summer for these students to prepare. This is a fall/spring sequence only.

Students who want to **teach high school English, History, etc** may also find this sequence enjoyable as it puts them in a cohort of future educators. It is NOT for future high school math, science or business teachers.

### 175,271,272

This is our heavy duty STEM path. (**Pharmacy, math or hi school math/science teacher, engineering, science, etc.**). Some **non-WCU business schools** will require brief or business calc, so those students may want to at least prepare to study calculus while @ SCC. So, yes, some of their electives must be math! Students who are not adequately prepared for 175 may take a more progressive route:

MAT 080 or Alg. CPT  $\geq 75 \rightarrow$  MAT **161**  $\rightarrow$  MAT **162** (currently online only)  $\rightarrow$  MAT **175** (pre-calc - fall only)  $\rightarrow$  MAT **271** (calc - spring only)  $\rightarrow$  MAT **271** (calc II - fall only)

### 171, 172

This pre-STEM sequence is taught for the **surveying/engineering group** and at night on the SCC campus and for **Early College** students on the Macon campus. It is a good choice for **pre-science, pre-engineering students** mentioned above who will need calculus at some point. This is a fall/spring sequence serving as an appropriate pre-req for Calculus in place of 175.

### 140/151 OR 161/151

**WCU business** majors must now take 161 with 151 as the recommended second course.

MAT 070  $\rightarrow$  MAT 080  $\rightarrow$  MAT **161 & 151** in either order or simultaneously

Students in **social sciences, humanities, and pre-nursing/health fields** may opt for one of the following routes: MAT 070  $\rightarrow$  MAT **140**  $\rightarrow$  MAT **151**

MAT 080 or Alg. CPT  $\geq 75 \rightarrow$  MAT **161** and MAT **151** (in either order)

If they have good CPT or SAT scores that place them out of 080 directly into stats and coll. alg., that is probably a better path. They MAY NOT take MAT 70  $\rightarrow$  MAT **140**  $\rightarrow$  MAT **161**

### 161,165

Finite Mathematics is a terminal applied course for which 161 is a pre-req. This sequence was designed to meet needs of the **Early College** program, but is an **option for AA students in fields that will not require statistics or calculus**. MAT 165 is spring only.