**Ma 480: Capstone Experience Mathematics I**

**Required of all students majoring in mathematics. Allows students the opportunity for a thorough development of their philosophy of mathematics, exposes them to a variety of mathematical research, and addresses career and graduate school preparedness. Not applicable toward a minor. First semester, one hour. Prerequisite: senior standing or permission of the department head.**

**Assignments:**

Total possible points = 230 pts  (note that point values are tentative and for your reference only)

[BJU Academic Integrity Policy](Integrity%20Statement.docx)

[Graduate School Review](file:///R%3A%5CCourses%5CMA480%5CPublic_html%5CGradGRECareer%5CGradSchool.docx) (25 pts) - due 9/19/19

[Career Review](file:///R%3A%5CCourses%5CMA480%5CPublic_html%5CGradGRECareer%5CCareer.docx) (25 pts) - due 9/26/19

[Math GRE Requirement](file:///R%3A%5CCourses%5CMA480%5CPublic_html%5CGradGRECareer%5CGRE.docx) (10 pts) - due 10/10/19 (use a GradeMaster sheet)  - read [Strategies and Tips](http://www.ets.org/gre/subject/prepare/strategy)

[Philosophy of Mathematics](file:///R%3A%5CCourses%5CMA480%5CPublic_html%5CPhilosophy%5CPhilosopy%20-%20Fall%202019.docx) (100 pts) - due 10/31/19 (paper copy and in Assignment Folder)

Rough Draft - due in class on 10/24/19

[Integrity Statement](file:///R%3A%5CCourses%5CMA480%5CPublic_html%5CIntegrity%20Statement.docx) required with paper submission

[Research](file:///R%3A%5CCourses%5CMA480%5CPublic_html%5CResearch%5CResearch.docx) - topic/approval (10 pts) due 11/14/19 and research outline (50 pts) due 12/5/19

Seminar/Conference Talk (10 pts) - TBD -  It will most likely be at Clemson (either the [Mini-Conference](http://spoznan.people.clemson.edu/mini/) or one of the [weekly seminars](http://www.clemson.edu/science/departments/mathematical-sciences/news-events/colloquia-research-seminars.html)) or Furman ([Clanton Lecture Series](http://www.furman.edu/academics/mathematics/Conferences-and-Events/Pages/Clanton-Lecture-Series.aspx)).

[Integrity Statement](file:///R%3A%5CCourses%5CMA480%5CPublic_html%5CIntegrity%20Statement.docx) required with GradeMaster

**Class Schedule**

Philosophy:

Discussion:  Sept 5 - Oct 17

Class discussion will be driven by the work that you have been reading, so be ready to present ideas from your research and comment on their value (are they Biblical, how does that philosophy impact daily actions, etc.)

Philosophy Rough Draft Review:  Oct 24

Research:

Introduction:  Oct 31

Results/Questions from Research:  Nov 7-21

Develop Research Schedule:  Dec 5