General Education Committee
1. **Identification of course:**
   1.1 Current course prefix and number: MATH 126
   1.2 Course title: Calculus and Analytic Geometry I
   1.3 Credit hours: 4.5

2. **Revise course title:**
   2.1 Current course title: Calculus and Analytic Geometry I
   2.2 Proposed course title: Calculus I
   2.3 Proposed abbreviated title: Calculus I
   2.4 Rationale for revision of course title: The proposed title for the first course in calculus conforms with the title used at many other major institutions.

3. **Revise course number:**
   3.1 Current course number: MATH 126
   3.2 Proposed course number: MATH 136
   3.3 Rationale for revision of course number: The department is adopting a numbering system for its courses in which the tens digit indicates the specific mathematical area of the course. The numbers 30-39 will be for calculus courses.

4. **Revise course prerequisites/corequisites/special requirements:**
   4.1 Current prerequisites: Four years of high school mathematics, including Algebra II, geometry, and trigonometry, and satisfactory score on Math Placement Exam; or MATH 117 or MATH 118, with grade of C or better.

   4.2 Proposed prerequisites: Four years of high school mathematics, including Algebra II, geometry, and trigonometry, and satisfactory scores on Math Placement Exam and Math Placement Trig Exam; or MATH 117 or MATH 118, with grade of C or better.

   4.3 Rationale for revision of course prerequisites: Skill in trigonometry is necessary for success in calculus. Students who cannot demonstrate such skill through a satisfactory score on the MPTE would benefit from enrolling in MATH 117 prior to studying calculus.

   4.4 Effect on completion of major/minor sequence: None. Students who do not have the required skills in trigonometry are often required to repeat the first calculus course.
5. **Revise course catalog listing:**

5.1 **Current course catalog listing:**

This is the first of a sequence of courses which present a unified treatment of plane and solid analytic geometry and differential and integral calculus. (Graphing calculator required.)

5.2 **Proposed course catalog listing:**

A course in one-variable calculus including topics from analytic geometry. Limits, derivatives, integration, and applications of polynomial, rational, trigonometric, and transcendental functions. Includes lecture and recitation. (Graphing calculator required.)

5.3 **Rationale for revision of course catalog listing:** The proposed listing describes the content and emphasis of the course in greater detail. The department also will deliver the course on a lecture/recitation schedule similar to that of many other institutions.

6. **Revise course credit hours:**

6.1 **Current course credit hours:** 4.5

6.2 **Proposed course credit hours:** 4

6.3 **Rationale for revision of course credit hours:** The change to 4 hours will make the course conform with Calculus I courses at most other major institutions and eliminate problems for students who wish to transfer calculus credit to or from WKU.

7. **Proposed term for implementation:** Fall 2010

8. **Dates of prior committee approvals:**

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Undergraduate Curriculum Committee

University Senate

Attachment: Course Inventory Form