**The University of the Incarnate Word**  
**MATH 0318 Introduction to Geometry, Probability and Statistics**

**Catalog description:**
This course is a review of basic algebra, geometry, probability, and statistics concepts. It focuses on measures of central tendency, counting principles and methods, visual displays of data, measures of distribution, fundamental concepts and applications of geometry and measurement, constructions, and applications of the Pythagorean Theorem.

**Context:**
MATH 0318 is required of those students whose assessment scores in mathematics are below college level. It is designed to help students master the mathematical skills needed for success in MATH 1306 and MATH 2303. Students must complete this course with a C or better. It does not meet the core mathematics requirements.

**Description of the course:**
MATH 0318 is a three-hour developmental course focusing on basic concepts of algebra, geometry, measurement, probability, and statistics. Coursework is dedicated to developing fluency, confidence and competence in those mathematical skills associated with beginning college mathematics. The course consists of lectures, demonstrations, and class discussions. Emphasis will be placed on critical thinking, problem solving, and problem solving strategies. Assessment and teaching strategies will include group activities, problem sets, written examinations, and classroom discourse. Technology for this course will include the use of graphing calculators or computer emulators.

**Mathematics Outcomes of the course:**

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<th>Upon completion of this course, the student will be able to:</th>
<th>As measured by:</th>
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| Develop knowledge, understanding, and competency of basic geometry and measurement concepts | Group activities  
Problems sets and written examinations  
Classroom discourse |
| Develop knowledge, understanding, and competency of basic probability and statistics concepts. | Group activities  
Problems sets and written examinations  
Classroom discourse |
| Understand the relationship between algebra and geometry | Group activities  
Problems sets and written examinations |
| Develop problem solving strategies and skills in geometry, measurement, probability, and statistics | Group activities  
Problems sets and written examinations  
Classroom discourse |

**Student Engagement Goals of the course:**

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<th>Upon completion of this course, the student will:</th>
<th>As completed through these activities:</th>
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| Be familiar with the culture of higher education. | “Mathematics Expectations” are posted in all mathematics classrooms for student reference.  
Students visit instructor during office hours and complete a student questionnaire. |
| Comprehend and appreciate academic | Instructor refers to “Mathematics |


| Expectations. | Expectations throughout the semester. Students participate in classroom problem solving activities. |
| Be involved in intellectually and creatively challenging course work. | Students participate in classroom problem solving activities. Students work with mathematical ideas at the conceptual and abstract level. |
| Actively collaborate with others in their learning. | Students collaborate with others through cooperative lessons. Students participate in classroom discourse. |
| Be engaged in enriching educational experiences. | Students use the graphing calculator or graphing emulator in classroom activities, homework, and exams. Students interact through cooperative lessons and classroom discourse. |
| Interact with faculty members outside of the classroom. | Students meet with their instructor at least 2 times during the semester to discuss grades or assignments. Instructors provide activities using real-world problems. |

**Disability Accommodations**
The University of the Incarnate Word is committed to providing a supportive, challenging, diverse and integrated environment for all students. In accordance with Section 504 of the Rehabilitation Act – Subpart E and Title III of the Americans with Disabilities Act (ADA), the University ensures accessibility to its programs, services and activities for qualified students with documented disabilities.
For more information, contact the Student Disability Services Office:
**Location** Administration Building – Room 105
**Phone** (210) 829-3997
**Fax** (210) 829-6078
[www.uiw.edu/sds](http://www.uiw.edu/sds)

**Policy on Academic Integrity**
The highest standards of academic honesty are expected in this course. Forms of academic dishonesty include, but are not limited to cheating, plagiarism, and counterfeit work, falsification of academic record, unauthorized reuse of work, theft, and collusion. See the Student Handbook for definitions and procedures for investigation of claims of academic dishonesty.

Approved: 9/10/14