# Flex Course Request

**Academic Organization and Curriculum Handbook**

<table>
<thead>
<tr>
<th>College</th>
<th>EHE</th>
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<tbody>
<tr>
<td>Course Bulletin Listing</td>
<td>EDU T&amp;L - EDUCATION:TEACHING &amp; LEARNING</td>
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<table>
<thead>
<tr>
<th>Course Prefix</th>
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<tbody>
<tr>
<td>Course Number</td>
<td>727</td>
</tr>
<tr>
<td>Generic course or decimal subdivision?</td>
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<tr>
<td>Course Decimal</td>
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<table>
<thead>
<tr>
<th>Full Course Title</th>
<th>Mathematics Education</th>
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<table>
<thead>
<tr>
<th>Level</th>
<th>Undergraduate</th>
<th>Graduate</th>
<th>Credit Hours</th>
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<tr>
<th>Proposed Effective Year</th>
<th>12</th>
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<tr>
<th>Proposed Effective Term</th>
<th>Spring Quarter</th>
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<tr>
<th>Previous term(s) of offering and enrollment</th>
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## Flexibly Scheduled/Off-Campus/Workshop Course Information

**Course Description**

This course is designed to provide participants with tools for analyzing mathematical progressions. Participants will learn about the sequencing of tasks that engage/support learning.

**Offering Pattern**

- ✓ This year
- □ Every other year

**General Course Information Statement**

□ Offered in Distance Learning Format?

□ Service Learning?

**Date Range(s)**

3/29-5/31/2012
Complete this section for off-campus courses

Off-campus ZIP code -

Explain differences in distribution of contact time with on-campus offerings

Instructor Sybil Brown
Rank Lecturer

Explain differences in instructor rank/qualifications with on-campus offerings

Explain differences in teaching arrangements from on-campus offerings

Explain how student services will be provided to off-campus students (registration, office hours, academic advising, etc.)

General Information

Expected Section Size 0

State the need and purpose of the course. Indicate how the course relates to the primary goals of the academic unit/school/college/university
This course is contracted through the office of Outreach and Engagement in the College of Education for the Columbus City School Teachers.

Describe any changes in library, equipment, or teaching aids needed

Expected Enrollment for Proposed Offering Term

Please complete and attach the form(s) on the following page before completing the package.

Scheduling Supplement Form

**Course Contact Information**

- **Faculty Name**: Greta Robertson
- **Faculty Email**: robertson.60@osu.edu
- **Contact Name**: Sarah McNeill
- **Contact Dept**: EDUTL
- **Contact Email**: mcneill.27@osu.edu
- **Contact Phone**: 2-2476

Save Validate
The Ohio State University  
College of Education and Human Ecology  
School of Teaching & Learning  
Spring 2012

Blended Format  
Thursday (Face to Face: 4/5, 4/26, 5/10, 5/24, 5/31; CCS Blackboard: 3/29, 4/12, 4/19, 5/3, 5/17)  
Location: Northland High School, 4:00-7:00pm

Dr. Sybil Brown & Dr. Greta Robertson  
Lecturers

Brown (614-365-5342); Robertson (614-365-5296)  
Brown (s1312b@aol.com); Robertson (robertson.60@osu.edu)

T&L 27.26

Task Progressions: A Worthwhile Examination for Strengthening Student Performances in Mathematics: CCSS-6-12  
Graduate Level, 3 Quarter Hours

Course Objectives/Learning Outcomes
This course is designed to provide participants with tools for analyzing mathematical progressions 6-12 under the new Common Core State Standards. Using selected standards form Algebra, Geometry, Probability & Statistics, teachers will learn about the sequencing of tasks that engage students and support discourse that empower the connection/development of mathematics. Participants will examine clarity, comprehensiveness, coherence, and rigor within and across grades/courses. Following successful completion of this course, participants will be able to create and deliver quality instructional tasks/lessons/activities/classroom environments that are aligned to new CCSS.

Approximately 2 weeks prior to the start of class, participants will receive an email (CCS) communication regarding the materials that will need to be purchased. Resources forming the foundation of this course are listed below.

References

Related Links:
- Learning Trajectories In Mathematics:  
- Appendix A: Designing High School Mathematics Courses Based on the Common Core State Standards  
  http://www.corestandards.org/assets/CCSSI_Mathematics_Appendix_A.pdf  
- Ccssm: Content & Mathematical Practices: www.corestandards.org/  
- Inside Mathematics: insidemathematics.org/  
- Shell Center/MARS: www.mathshell.com/  
- Ccssm Resources: www.mathedleadership.org/ccss/materials.html
Assignment Value

- Class Participation: 20%
- Reflective Writing: 20%
- Task/Other Assign: 20%
- Project: 40%

Assignment Description

Class Participation: class room participatory structures (face to face and/or online)

Reflective Reading/Writing: related readings followed by reflective, written substantive response: point(s) you agree on, points(s) you disagree with, challenges, concerns; 1-2 pages, size 12 font, double spaced.

Tasks/Other Assign: class assignments that include creation of mathematical performance tasks, examination and other assignments.

Project: TBA-A CCSSM study that participant will use in classroom.

Grading Scale: Pass (100%–83%)/Fail (82% and less)

Topical Outline - Schedule of Topics, Readings, Assignments
*Online: CCS Blackboard

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Assignment/Due Date</th>
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<tbody>
<tr>
<td>Week 1 March 29*</td>
<td>Algebra Examination of Progressions</td>
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<tr>
<td>Week 2 April 5</td>
<td>Algebra Examination of Progressions</td>
<td>Reflective Reading/Writing</td>
</tr>
<tr>
<td>Week 3 April 12 Online*</td>
<td>Algebra Examination of Progressions</td>
<td></td>
</tr>
<tr>
<td>Week 4 April –19*</td>
<td>Geometry Examination of Progressions</td>
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<tr>
<td>Week 5 April–26</td>
<td>Geometry Examination of Progressions</td>
<td>Reflective Reading/Writing</td>
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<tr>
<td>Week 6 May 3*</td>
<td>Geometry Examination of Progressions</td>
<td></td>
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<tr>
<td>Week 7 May 10</td>
<td>Probability &amp; Statistics Examination of Progressions</td>
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<tr>
<td>Week 8 May '17*</td>
<td>Probability &amp; Statistics Examination of Progressions</td>
<td>Reflective Reading/Writing</td>
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<tr>
<td>Week 9 May 24</td>
<td>Probability &amp; Statistics Examination of Progressions</td>
<td></td>
</tr>
<tr>
<td>Week 10 May 31</td>
<td>Projects</td>
<td></td>
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<tr>
<td>Final--June 1</td>
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Policies for Missed Exams/Quizzes/Classes/Participation - Standards and expectations are in accordance with graduate studies. Students are required to attend classes and complete all work as assigned. Each individual's class and group participation are needed for quality learning and scholarly discourse. In the event of an emergency, inability to attend class, or failure to complete an assignment on due date, please contact the instructor immediately.

Academic Misconduct – The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an "excuse" for academic misconduct.

If we suspect that a student has committed academic misconduct in this course, we are obligated by University Rules to report our suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University. For additional information, see the Code of Student Conduct.

http://studentaffairs.osu.edu/resource_csc.asp

ODS Statement – Any student who feels s/he may need an accommodation based on the impact of a disability should contact one of the instructors privately to discuss specific needs. The Office of Disability Services is relied upon for assistance in verifying the need for accommodations and developing accommodation strategies. Please contact the Office for Disability Services at 614-292-3307 (V) or 614-292-0901 (TDD) in room 150 Pomerene Hall to coordinate reasonable accommodations; http://www.ods.ohio-state.edu/. Please make sure that students know they will be expected to follow Americans with Disabilities Act Guidelines for access to technology.

Grievances and Solving Problems -- According to University Policies, available from the Division of Student Affairs, if you have a problem with this class, "You should seek to resolve a grievance concerning a grade or academic practice by speaking first with the instructor or professor: Then, if necessary, with the department chairperson, college dean, and provost, in that order. Specific procedures are outlined in Faculty Rule 3335-7-23, which is available from the Office of Student Life, 208 Ohio Union." "Grievances against graduate, research, and teaching assistants should be submitted first to the supervising instructor, then to the chairperson of the assistant's department."

Statement on Diversity – The College of Education and Human Ecology affirms the importance and value of diversity in the student body. Our programs and curricula reflect our multicultural society and global economy and seek to provide opportunities for students to learn more about persons who are different from them. Discrimination against any individual based upon protected status, which is defined as age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status, is prohibited.

The School of Physical Activity and Educational Services (PAES) is committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the School seeks to develop and nurture diversity, believing that it strengthens the organization, stimulates creativity, promotes the exchange of ideas, and enriches campus life. The School of PAES prohibits discrimination against any member of the school's community on the basis of race, religion, color, sex, age, national origin or ancestry, marital status, parental status, gender identity, sexual orientation, ability status, health status, or veteran status.

Technology-- Students will be encouraged to use technology (i.e., PowerPoint, Texas Instruments calculators, spreadsheets, Elmo, SmartBoards, and websites) to demonstrate knowledge and skills.
Flex Course Request Form

College: Teaching & Learning  Course Bulletin Listing: T&L  (e.g. EDUTL – Education Teaching and Learning)

Course Number: 127  Generic course or decimal subdivision: Y/N  Course Decimal: 26

Level: Undergraduate ___ Graduate X ___ Grade Option: Letter ___ S/U x  Credit Hours: ___ 3 ___

Proposed Effective Year: 2012 ___  Proposed Effective Term: Spring  Previous Terms of Offering:

N/A

Flexibly Scheduled / Off-Campus / Workshop Course Information

Course Description:
25 word limit

This course is designed to provide participants with tools for analyzing mathematical progressions. Participants will learn about the sequencing of tasks that engage/support learning.

Course offered less than term length: No  Distribution of Class Time: 3hrs/10 weeks (e.g. 3 hrs/10 weeks)

Offering Pattern: Distance Learning Format: Online–5 sessions (3/29, 4/12, 4/19, 5/3, 5/17); Face to Face–5 sessions(4/5, 4/26, 5/10, 5/24, 5/31).

Off-Campus Offering: Yes  Off-Campus ZIP code: 15007  Off-Campus Location: Northland High School: Columbus City Schools

Hours Out-of Class Preparation: 0  Total Class Meeting Hours: 30 ___  Length of each Class: ___ 3 hrs. ___

Advertised Course Title:
Task Progressions: A Worthwhile Examination for Strengthening Student Performances in Mathematics: CCSS-6-12

Faculty Name: Dr. Sybil Brown  Faculty Rank: Lecturer

Faculty Phone-cell: 614-832-7475  Faculty Email: s1312b@aol.com

Secondary Instructor: Dr. Greta Robertson  Faculty Rank: Lecturer
Phone-cell: 614-937-8620 Email: robertson.60@osu.edu

Academic Advising Opportunity: By appointment (by appointment, after class, etc.)

Approved by the Graduate Studies Committee Chair: [Signature]  Date: 1-17-2012
Approved by the School Director: [Signature]  Date: 1-17-2012