Section 1. Course Title and Description

Prefix & No.  Course Title  Credits
CSC 318  Parallel Computing  3

Course Description:
This course focuses on concepts and issues related to the design, analysis, and implementation of parallel algorithms. Examples of areas and environments discussed and used: shared-memory computing, distributed-memory computing, cluster computing, high-performance computing and GPU computing.

Section 2. Review of Course

Will this be a common or unique course? (select the appropriate option below)
X  This course will be a common course. (Complete below, then go to Section 3.)

Indicate universities that are proposing this common course:
BHSU  DSU  NSU  SDSMT  X  SDSU  X  USD

Section 3. Other Course Information

1. Are there instructional staffing impacts?
X  No, schedule management. Explain: This course was previously offered as CSC 392 Topics.

2. Existing program in which course will be offered:  Computer Science

3. Proposed instructional method:  R - Lecture
(may be found at http://www.sdbor.edu/services/academics/AAC/guidelines.htm)
Provide a brief justification: This course has been taught under the 392 special topics for the previous three years under the same instructional method.

4. Proposed primary delivery:  001 – Face to Face
(may be found at http://www.sdbor.edu/services/academics/AAC/guidelines.htm)

5. Term in which change will be effective:  Fall 2014
6. Can this course be repeated for additional credit? No

7. Will the grade for this course be limited to S/U (pass/fail)? _____ Yes _____ No

8. Will section enrollments be capped? Yes, 32 Maximum per Section

9. Will this course be equated (i.e. considered the same course for degree completion) with any other unique or common course in the course database? _____ Yes _____ No

10. Is this prefix already approved for your university? _____ Yes _____ No

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**Section 4. To be completed by Academic Affairs**

1. University department code: SEECS

2. Proposed CIP code: 110701

   Is this a new CIP code for this university? _____ Yes _____ No

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**NEW COURSE REQUEST**

**Supporting Justification for On-Campus Review**

George Hamer  
Request Originator

Signature  
Date 12/2/13

Steve Hietpas  
Department Chair

Signature  
Date 12/3/13

Lewis Brown  
School/College Dean

Signature  
Date 3/11/14

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1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.
   The course has been taught for the last three years under the Special Topics and needs its own course number. We will continue to teach the course.

2. Note whether this course is: _____ Required _____ X Elective

3. In addition to the major/program in which this course is offered, what other majors/programs will be affected by this course?
   Many Math department students take this course to increase their skills in data analysis and programming.

4. If this will be a dual listed course, indicate how the distinction between the two levels will be made.
   NA

5. Desired section size 32
6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).
   George Hamer, Associate Professor, Ph.D.
   Ken Gamradt, Lecturer, MS

7. Note whether adequate facilities are available and list any special equipment that will be needed for
   the course.
   Existing facilities will be used for the course

8. Note whether adequate library and media support are available for the course.
   Existing facilities will be used.

9. Will the new course duplicate courses currently being offered on this campus? No

10. If this course may be offered for variable credit, explain how the amount of credit at each offering is
    to be determined.
    NA