SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

Intent to Plan for a New Program

UNIVERSITY:	DSU and SDSU
DEGREE(S) AND TITLE OF PROGRAM:	

skills include strong analytical skills and the ability to pay careful attention to detail, as well as the capacity to work well in groups and a willingness to understand the various roles played by fellow team members. Knowledge about the subject area in which they are working, or the intended audience, is valuable.[3]

DSU and SDSU are proposing to create an academic degree in software engineering at the Bachelor of Science (B.S.) level. Responding to the national need for professionals in computer science, cyber security, computer network development and web development for public and private organizations, the proposed major

agriculture, education, engineering, human sciences, nursing, pharmacy, and other courses or programs as the Board of Regents may determine (SDCL 13-58-11). The Jerome J. Lohr College of Engineering supports a variety of engineering programs as well as undergraduate and graduate computer science programs.

In addition, the SDBOR Strategic Plan 2012-2020 includes the following vision:

> South Dakotans will have increased access to continuing education opportunities needed to upgrade their credentials while remaining in the workforce;
> South Dakota will have a working-age population with advanced levels of education needed to support our democracy and the modern, knowledge-based economy; and
> South Dakota will be a recognized national leader in the use of information technology to enhance its educational, economic, social, scientific, and political development.

Adding a collaborative software engineering B.S. degree at DSU and SDSU is consistent with the board-designated missions of the universities, supports system goals, and will contribute to WKH VWDWH¶V ZRUNIRUFH needs. The program aligns with existing and PHQW future

		Yes/No	***Intended Start Date***
On campus	DSU	Yes	Fall

ENGL 250	Written, Oral, Visual, and Electronic Composition (Must have a C or bet this course)	3
SE 101	Software Engineering Orientation	R
SE 185	Problem Solving in Software Engineering	3
LIB 160	Information Literacy	1
MATH 165	Calculus I	4
MATH 166	Calculus II	4
PHYS 221	Introduction to Classical Physics I	5
Total Credits		27

Math and Physical Science: 11 cr.

COM S 227	Introduction to Object-oriented Programming	4
COM S 228	Introduction to Data Structures	3
MATH 267	Elementary Differential Equations and Laplace Transforms	4
Total Credits		11

Software Engineering Core: 37 cr.
A minimum GPA of 2.00 is required for this set of courses, including any transfer courses (please note that transfer course grades will not be calculated into the Core GPA M V Q q 521.26 532.18

Total Credits	37

Other Remaining Courses: 35 cr.
S E 491