

**ACADEMIC AFFAIRS COUNCIL**

**AGENDA ITEM: 5.E**

**DATE: June 11, 2014**

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**SUBJECT: AP Guidelines Update – Physics C**

Advanced Placement credit falls within Board of Regents Policy 2:5 Transfer of Credit which specifies that “Credit for college level courses granted through nationally recognized examinations such as CLEP, AP, DANTEs, etc., will be evaluated and accepted for transfer if equivalent to Regental courses and the scores are consistent with Regental policies.” Consistent with this policy, SDSM&T received a request for a review of the Physics C examinations available through the College Board. To facilitate the review of the equivalencies with existing courses, representatives from the System Assessment Committee were asked to work with institutional faculty/departments that manage this curriculum area and have them review the materials obtained from the AP program.

***Physics C-Mechanics***

- Course Homepage: [http://apcentral.collegeboard.com/apc/public/courses/teachers\\_corner/2264.html](http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2264.html)
- Exam Information: [http://apcentral.collegeboard.com/apc/members/exam/exam\\_information/8039.html](http://apcentral.collegeboard.com/apc/members/exam/exam_information/8039.html)

***Physic C-Electricity & Magnetism***

- Course Homepage: [http://apcentral.collegeboard.com/apc/public/courses/teachers\\_corner/2263.html](http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2263.html)
- Exam Information: [http://apcentral.collegeboard.com/apc/members/exam/exam\\_information/2008.html](http://apcentral.collegeboard.com/apc/members/exam/exam_information/2008.html)

Individual responses from the various campuses can be found below, noting concern with the level of content covered within the examination and the alignment this content has with equivalent courses within the Regental system. Based on these recommendations, the system AP Guidelines have been modified to reflect that the Physics courses have been reviewed, and that no credit may be earned for these particular examinations. Pending confirmation, these guidelines will move forward for approval by the Board of Regents.

(Continued)

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**RECOMMENDED ACTION**

Discussion and Recommendation.

*South Dakota State University*

AP Physics C would presumably be used by the SDBOR system to provide credit for PHYS 211/211L and PHYS 213/213L, in particular the mechanics exam for PHYS211 and the Electricity and Magnetism exam for PHYS213. I quote from the provided information from the College Board:

Most colleges and universities include in similar courses additional topics such as wave motion, kinetic theory and thermodynamics, optics, alternating current circuits, or special relativity. Although wave motion, optics and kinetic theory and thermodynamics are usually the most commonly included, there is little uniformity among such offerings, and these topics are not included in the Physics C Exams. The Development Committee recommends that supplementary material be added to Physics C when it is possible to do so. Many teachers have found that a good time to do this is late in the year, after the AP Exams have been given. Each Physics C course should also include a hands-on laboratory component comparable to a semester-long introductory college-level physics laboratory.

Those topics listed as not being covered by the examination are topics that SDBOR courses include in the relevant courses within the system.

In particular, thermodynamics and some kinetic theory is covered in PHYS211 and wave motion and optics is typically covered in PHYS213 (wave topics can appear in PHYS211). Consequently the AP course exams are only covering about 80%  $\pm$ 5% or so of the material that is covered in the SDBOR courses. Consequently, the AP courses cannot be viewed as equivalent. However, given that there is close to 80% overlap in content, it is not unreasonable to use the AP exam for giving credit in these courses. Due to this lack of coverage I am of the opinion that a higher bar for granting credit, than has been typical in the past, be utilized for granting credit in the SDBOR system. It is not uncommon for institutions to require a 4 for the granting of credit in the physics examinations and reasonable arguments could be made that a grade of 5 should be required for credit.

The provided information on the Mechanics AP physics exam indicate that over half (54.5%) of the students taking the exam obtained a 4 or 5 score. Therefore setting the bar at 4 would still allow more than half the students to obtain credit for the physics course. I strongly urge that the criteria for course credit based on the AP Physics C exams be higher than a 3 score on the examinations.

Specifically my recommendation is as follows:

- A score of 4 or 5 on the AP Physics C Mechanics exam be required for obtaining credit for PHYS211/211L at SDBOR institutions

- A score of 4 or 5 on the AP Physics C Electricity and Magnetism exam be required for obtaining credit for PHYS213/213L at SDBOR institutions

***BOR Follow-up:*** One quick question, is 80% coverage of the content for these courses enough to warrant granting credit for the courses you identified?

That is an interesting question, without an obvious answer. The calculus based sequence in introductory physics, a relatively standard course nation-wide, it gets taught slightly differently at different institutions, but there are about 2-3 standard configurations. The equivalent of our PHYS 211 and PHYS 213 is often taught as three 4 credit lab courses where the first one is mechanics and the second is electricity and magnetism and the third includes thermodynamics/optics/some wave optics and perhaps some elementary “modern” physics topics; naturally with some minimal variation of topics in the third semester mostly; bits of wave phenomena can and do occur in several places. Alternatively some schools teach the material as two 5 credit lab courses (not the 4 credit course that SDSU, SDSM&T, and I believe BHSU and DSU deliver). USD teaches the course as a 5 credit course, while being COM courses there is a one credit variation allowed between campuses and USD takes advantage of that opportunity.

80% coverage is of course a rough estimate on my part and is somewhat of a lower bound estimate. If push came to shove, I would recommend that it is enough to warrant granting credit; but it is not a strong recommendation. Naturally every professor teaches the course differently emphasizing some material over other material; the 80% of the material addressed by the AP exam is the most important 80% of the material in the courses and frequently when one teaches the course and the end of the semester approaches all too soon some of the material will get short shrift and most professors usually choose to give looser coverage to the material that the AP test’s do not cover. Naturally there is a political component to the question as well, which I am not well positioned to address. I am of the strong opinion that a ***four*** should be the passing criteria and not a ***three*** score on the exam.

Incidentally, I gave similar professional opinion a year ago(?) when the question came up regarding the Physics 1 and Physics 2 exam as AP credit for PHYS 111 and PHYS 113, namely to use those exams for credit determination for PHYS 111 and PHYS 113 and I recommended that a ***four*** should be the criteria for credit. I believe a decision was reached to only require a three score for AP credit in Regental institutions. I am not privy to the reasoning behind the decision. Past practice has been to require a three on the old Physics B exam for AP credit for PHYS 111.

### ***University of South Dakota***

The problem for accepting AP credit for Physics C is that the AP curriculum is short material we cover in our PHYS 211/213 courses. That is why we do not accept it.

Specifically, PHYS 211 would also cover thermodynamics which is not covered in the AP Physics C Mechanics curriculum, and PHYS 213 would cover optics, which is not covered in the AP Physics C Electromagnetism curriculum. Thus, accepting credit for the AP Physics C Mechanics or Electromagnetism shorts our students essential material they need for upper division courses.

I'm aware of other places (U Chicago for example) which offer this material in three semesters or quarters with one term covering mechanics, one term covering E&M and one term picking up the remainder including thermodynamics and optics. Granting credit for AP Physics C makes sense in places like this.

**South Dakota Board of Regents  
Advanced Placement Guidelines & Course Equivalency Recommendations**

**1. Purpose**

Advanced Placement credit falls within [Board of Regents Policy 2:5 Transfer of Credit](#) which specifies that “Credit for college level courses granted through nationally recognized examinations such as CLEP, AP, DANTES, etc., will be evaluated and accepted for transfer if equivalent to Regental courses and the scores are consistent with Regental policies.” Board practice specifies that when new Advanced Placement examinations, or when modifications are made to existing examinations faculty in the respective disciplines are asked to evaluate course materials and make an equivalency recommendation. These recommendations are considered by the Academic Affairs Council and forwarded to the Board of Regents for approval and subsequent addition to the Regental system equivalency matrix.

**2. Transcription**

Upon student application all AP credits will be applied to student’s transcripts following the *Advanced Placement Guidelines for Regental Institutions* and *BOR Policy 2:5 Transfer of Credit*.

**3. Student Advising**

Although Regental institutions accept AP credits there are many professional schools throughout the country that do not accept AP to satisfy the pre-requisite requirements for admission to their program. For example, some programs simply state that they do not accept AP and other programs specify that courses completed through AP can be used to meet pre-requisites *only* if the student has completed upper division coursework in that content area and/or demonstrates evidence of competency in that academic area via scores on professional school admissions exams.

Due to these varying degrees of value placed on AP courses by professional programs throughout the country, and in order to not unfairly limit students options upon graduation, it is advised that students be informed of this variation upon admission and initial course registration. Additionally, students should seek guidance on this matter from the professional programs to which they intend to apply as well as seek the counsel of their campus’ Health Professions Advisor.

If questions persist after consultation with institutional advising personnel, please direct questions to the South Dakota Board of Regents central office at 605-773-3455.

**Advanced Placement Guidelines for Regental Institutions**  
**Acceptance of credit is governed by BOR policy 2:5 Transfer of Credit.**

	<b>Minimum Scores</b>	<b>Credit Hours</b>	<b>Course Prefix</b>	<b>Course Number(s)</b>	<b>System General Education Requirement</b>	<b>Institution Graduation Requirement</b>
<b>History of Art</b>						
<i>BHSU</i>	3	3	ARTH	211	yes	yes
<i>DSU</i>	3	3	ARTH	211	yes	no
<i>NSU</i>	3	3	ARTH	211	yes	no
<i>SDSMT</i>	3	3	ARTH	211	yes	no
<i>SDSU</i>	3	3	ARTH	211	yes	yes
<i>USD</i>	3	3	ARTH	211	yes	yes
<b>Studio Art – Drawing Portfolio</b>						
<i>BHSU</i>	3	3	ART	111	yes	yes
<i>DSU</i>	3	3	ART	111	yes	no
<i>NSU</i>	3	3	ART	111	yes	yes
<i>SDSMT</i>	3	3	ART	111	yes	no
<i>SDSU</i>	3	3	ART	111	yes	yes
<i>USD</i>	3	3	ART	111	yes	yes
<b>Studio Art – General Portfolio</b>						
<i>BHSU</i>	3	3	ART	121	yes	no
<i>DSU</i>	3	3	ART	121	yes	no
<i>NSU</i>	3	3	ART	121	yes	no
<i>SDSMT</i>	3	3	ART	121	yes	no
<i>SDSU</i>	3	3	ART	121	yes	yes
<i>USD</i>	3	3	ART	121	yes	yes
<b>Biology</b>						
<i>BHSU</i>	3	4	BIOL	1511/151L	yes	no
	5	8	BIOL	151/151L & 153/153L	yes	no
<i>DSU</i>	3	4	BIOL	1511/151L	yes	no
	5	8	BIOL	151/151L & 153/153L	yes	no
<i>NSU</i>	3	4	BIOL	1511/151L	yes	no
	5	8	BIOL	151/151L & 153/153L	yes	no
<i>SDSMT</i>	3	4	BIOL	1511/151L	yes	no
	5	8	BIOL	151/151L & 153/153L	yes	no
<i>SDSU</i>	3	4	BIOL	1511/151L	yes	no
	5	8	BIOL	151/151L & 153/153L	yes	no
<i>USD</i>	3	4	BIOL	1511/151L	yes	no
	5	8	BIOL	151/151L & 153/153L	yes	no

**Advanced Placement Guidelines Continued**

	<b>Minimum Scores</b>	<b>Credit Hours</b>	<b>Course Prefix</b>	<b>Course Number(s)</b>	<b>System General Education Requirement</b>	<b>Institution Graduation Requirement</b>
<b>Chemistry</b>						
<i>BHSU</i>	3	4	CHEM	112/112L	yes	no
	5	8	CHEM	112/112L & 114/114L	yes	no
<i>DSU</i>	3	4	CHEM	112/112L	yes	no
	5	8	CHEM	112/112L & 114/114L	yes	no
<i>NSU</i>	3	4	CHEM	112/112L	yes	no
	5	8	CHEM	112/112L & 114/114L	yes	no
<i>SDSMT</i>	3	4	CHEM	112/112L	yes	no
	5	8	CHEM	112/112L & 114/114L	yes	no
<i>SDSU</i>	3	4	CHEM	112/112L	yes	no
	5	8	CHEM	112/112L & 114/114L	yes	no
<i>USD</i>	3	4	CHEM	112/112L	yes	no
	5	10	CHEM	112/112L & 114/114L	yes	No
<b>Computer Science A</b>						
<i>BHSU</i>	3	4	MIS	150	no	no
<i>DSU</i>	3	4	CSC	150	no	yes
<i>NSU</i>	3	4	MIS	150	no	no
<i>SDSMT</i>	3	4	CSC	150	no	no
<i>SDSU</i>	3	4	CSC	150	no	no
<i>USD</i>	3	4	CSC	150	no	no
<b>Computer Science AB<sup>c</sup></b>						
<i>BHSU</i>	3	4	MIS	150	no	no
	5	8	MIS	150 & 250	no	no
<i>DSU</i>	3	4	CSC	150	no	yes
	5	8	CSC	150 & 250	no	no
<i>NSU</i>	3	4	MIS	150	no	no
	5	8	MIS	150 & 250	no	no
<i>SDSMT</i>	3	4	CSC	150	no	no
	5	8	CSC	150 & 250	no	no
<i>SDSU</i>	3	4	CSC	150	no	no
	5	8	CSC	150 & 250	no	no
<i>USD</i>	3	4	CSC	150	no	no
	5	8	CSC	150 & 250	no	no

**Advanced Placement Guidelines Continued**

	<b>Minimum Scores</b>	<b>Credit Hours</b>	<b>Course Prefix</b>	<b>Course Number(s)</b>	<b>System General Education Requirement</b>	<b>Institution Graduation Requirement</b>
<b><i>Economics: Macroeconomics</i></b>						
BHSU	3	3	ECON	202	yes	yes
DSU	3	3	ECON	202	yes	no
NSU	3	3	ECON	202	yes	yes
SDSMT	3	3	ECON	202	yes	no
SDSU	3	3	ECON	202	yes	no
USD	3	3	ECON	202	yes	no
<b><i>Economics: Microeconomics</i></b>						
BHSU	3	3	ECON	201	yes	yes
DSU	3	3	ECON	201	yes	no
NSU	3	3	ECON	201	yes	yes
SDSMT	3	3	ECON	201	yes	no
SDSU	3	3	ECON	201	yes	no
USD	3	3	ECON	201	yes	no
<b><i>English Language &amp; Composition</i></b>						
BHSU	3	3	ENGL	101	yes	no
DSU	3	3	ENGL	101	yes	no
NSU	3	3	ENGL	101	yes	no
SDSMT	3	3	ENGL	101	yes	no
SDSU	3	3	ENGL	101	yes	no
USD	3	3	ENGL	101	yes	no
<b><i>English Literature &amp; Composition</i></b>						
BHSU	3	3	ENGL	210	yes	yes
DSU	3	3	ENGL	210	yes	yes
NSU	3	3	ENGL	210	yes	yes
SDSMT	3	3	ENGL	210	yes	no
SDSU	3	3	ENGL	210	yes	yes
USD	3	3	ENGL	210	yes	yes
<b><i>Environmental Science</i></b>						
BHSU	3	3	BIOL	ELECTIVE	no	no
DSU	3	3	BIOL	ELECTIVE	no	no
NSU	3	3	BIOL	ELECTIVE	no	no
SDSMT	3	3	BIOL	ELECTIVE	no	no
SDSU	3	3	BIOL	ELECTIVE	no	no
	3	3	or ENVM	275		yes
USD	3	3	BIOL	ELECTIVE	no	no

**Advanced Placement Guidelines Continued**

	<b>Minimum Scores</b>	<b>Credit Hours</b>	<b>Course Prefix</b>	<b>Course Number(s)</b>	<b>System General Education Requirement</b>	<b>Institution Graduation Requirement</b>
<b><i>French Language</i></b>						
<i>BHSU</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>DSU</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>NSU</i>	3	4	FREN	202 <sup>A</sup>	no	yes
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>SDSMT</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>SDSU</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>USD</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<b><i>French Literature<sup>c</sup></i></b>						
<i>BHSU</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>DSU</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>NSU</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>SDSMT</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>SDSU</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<i>USD</i>	3	4	FREN	202 <sup>A</sup>	no	no
	4,5	3	FREN	310 <sup>B</sup>	no	no
<b><i>Human Geography</i></b>						
<i>BHSU</i>	3	3	GEOG	200	yes	no
<i>DSU</i>	3	3	GEOG	200	yes	no
<i>NSU</i>	3	3	GEOG	200	yes	no
<i>SDSMT</i>	3	3	GEOG	200	yes	no
<i>SDSU</i>	3	3	GEOG	200	yes	yes
<i>USD</i>	3	3	GEOG	200	yes	no

**Advanced Placement Guidelines Continued**

	<b>Minimum Scores</b>	<b>Credit Hours</b>	<b>Course Prefix</b>	<b>Course Number(s)</b>	<b>System General Education Requirement</b>	<b>Institution Graduation Requirement</b>
<b>German Language</b>						
<i>BHSU</i>	3	3	GERM	202 <sup>D</sup>	no	no
	4,5	4	GERM	311 & 312 <sup>E</sup>	no	no
<i>DSU</i>	3	3	GERM	202 <sup>D</sup>	no	no
	4,5	4	GERM	311 & 312 <sup>E</sup>	no	no
<i>NSU</i>	3	3	GERM	202 <sup>D</sup>	no	yes
	4,5	4	GERM	311 & 312 <sup>E</sup>	no	no
<i>SDSMT</i>	3	3	GERM	202 <sup>D</sup>	no	no
	4,5	4	GERM	311 & 312 <sup>E</sup>	no	no
<i>SDSU</i>	3	3	GERM	202 <sup>D</sup>	no	no
	4,5	4	GERM	311 & 312 <sup>E</sup>	no	no
<i>USD</i>	3	3	GERM	202 <sup>D</sup>	no	no
	4,5	4	GERM	311 & 312 <sup>E</sup>	no	no
<b>Government &amp; Politics - Comparative</b>						
<i>BHSU</i>	3	3	POLS	141	yes	yes
<i>DSU</i>	3	3	POLS	141	yes	no
<i>NSU</i>	3	3	POLS	141	yes	no
<i>SDSMT</i>	3	3	POLS	141	yes	no
<i>SDSU</i>	3	3	POLS	141	yes	no
<i>USD</i>	3	3	POLS	141	yes	no
<b>Government &amp; Politics – United States</b>						
<i>BHSU</i>	3	3	POLS	100	yes	yes
<i>DSU</i>	3	3	POLS	100	yes	no
<i>NSU</i>	3	3	POLS	100	yes	yes
<i>SDSMT</i>	3	3	POLS	100	yes	no
<i>SDSU</i>	3	3	POLS	100	yes	yes
<i>USD</i>	3	3	POLS	100	yes	no
<b>History - European</b>						
<i>BHSU</i>	3	3	HIST	122	yes	yes
<i>DSU</i>	3	3	HIST	122	yes	no
<i>NSU</i>	3	3	HIST	122	yes	yes
<i>SDSMT</i>	3	3	HIST	122	yes	no
<i>SDSU</i>	3	3	HIST	122	yes	yes
<i>USD</i>	3	3	HIST	122	yes	no

**Advanced Placement Guidelines Continued**

	<b>Minimum Scores</b>	<b>Credit Hours</b>	<b>Course Prefix</b>	<b>Course Number(s)</b>	<b>System General Education Requirement</b>	<b>Institution Graduation Requirement</b>
<i>History – United States</i>						
<i>BHSU</i>	3	3	HIST	151	yes	yes
<i>DSU</i>	3	3	HIST	151	yes	yes
<i>NSU</i>	3	3	HIST	151	yes	yes
<i>SDSMT</i>	3	3	HIST	151	yes	no
<i>SDSU</i>	3	3	HIST	151	yes	yes
<i>USD</i>	3	3	HIST	151	yes	no
<i>Latin Literature <sup>c</sup></i>						
<i>BHSU</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<i>DSU</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<i>NSU</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<i>SDSM&amp;T</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<i>SDSU</i>	3	8	LATI	101 and 102	yes	SDSU
	5	14	LATI	101, 102, 201, and 202	yes*	no
	4	11	LATI	101, 102, and 201	yes*	no
<i>USD</i>	5	14	LATI	101, 102, 201, and 202	yes*	no
	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<i>Latin - Vergil</i>						
<i>BHSU</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<i>DSU</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<i>NSU</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no

**Advanced Placement Guidelines Continued**

	<b>Minimum Scores</b>	<b>Credit Hours</b>	<b>Course Prefix</b>	<b>Course Number(s)</b>	<b>System General Education Requirement</b>	<b>Institution Graduation Requirement</b>
<b>Latin - Vergil</b>						
<i>SDSM&amp;T</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<i>SDSU</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<i>USD</i>	3	8	LATI	101 and 102	yes	no
	4	11	LATI	101, 102, and 201	yes*	no
	5	14	LATI	101, 102, 201, and 202	yes*	no
<b>Mathematics – Calculus AB</b>						
<i>BHSU</i>	3	4	MATH	123	yes	no
<i>DSU</i>	3	4	MATH	123	yes	no
<i>NSU</i>	3	4	MATH	123	yes	no
<i>SDSM&amp;T</i>	3	4	MATH	123	yes	no
<i>SDSU</i>	3	4	MATH	123	yes	no
<i>USD</i>	3	4	MATH	123	yes	no
<b>Mathematics – AB Subscore on the BC</b>						
<b>Calculus</b>						
<i>BHSU</i>	3	4	MATH	123	yes	no
<i>DSU</i>	3	4	MATH	123	yes	no
<i>NSU</i>	3	4	MATH	123	yes	no
<i>SDSM&amp;T</i>	3	4	MATH	123	yes	no
<i>SDSU</i>	3	4	MATH	123	yes	no
<i>USD</i>	3	4	MATH	123	yes	no
<b>Mathematics – Calculus BC</b>						
<i>BHSU</i>	3	8	MATH	123 & 125	yes/yes	no
<i>DSU</i>	3	8	MATH	123 & 125	yes/yes	no
<i>NSU</i>	3	8	MATH	123 & 125	yes/yes	no
<i>SDSM&amp;T</i>	3	8	MATH	123 & 125	yes/yes	no
<i>SDSU</i>	3	8	MATH	123 & 125	yes/yes	no
<i>USD</i>	3	8	MATH	123 & 125	yes/yes	no



**Advanced Placement Guidelines Continued**

	<b>Minimum Scores</b>	<b>Credit Hours</b>	<b>Course Prefix</b>	<b>Course Number(s)</b>	<b>System General Education Requirement</b>	<b>Institution Graduation Requirement</b>
<i>Physics C: Electricity &amp; Magnetism</i>	No Credit	No Credit	No Credit	No Credit	No Credit	No Credit
<i>Psychology</i>						
<i>BHSU</i>	3	3	PSYC	101	yes	yes
<i>DSU</i>	3	3	PSYC	101	yes	no
<i>NSU</i>	3	3	PSYC	101	yes	yes
<i>SDSM&amp;T</i>	3	3	PSYC	101	yes	no
<i>SDSU</i>	3	3	PSYC	101	yes	yes
<i>USD</i>	3	3	PSYC	101	yes	no
<i>Spanish Language</i>						
<i>BHSU</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>DSU</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>NSU</i>	3	3	SPAN	202 <sup>F</sup>	no	yes
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>SDSM&amp;T</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>SDSU</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>USD</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>Spanish Literature</i>						
<i>BHSU</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>DSU</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>NSU</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>SDSM&amp;T</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>SDSU</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no
<i>USD</i>	3	3	SPAN	202 <sup>F</sup>	no	no
	4,5	6	SPAN	311 & 312 <sup>G</sup>	no	no

**Advanced Placement Guidelines Continued**

	<b>Minimum Scores</b>	<b>Credit Hours</b>	<b>Course Prefix</b>	<b>Course Number(s)</b>	<b>System General Education Requirement</b>	<b>Institution Graduation Requirement</b>
<i>Statistics</i>						
<i>BHSU</i>	3	3	MATH	281	yes	no
<i>DSU</i>	3	3	MATH	281	yes	no
<i>NSU</i>	3	3	MATH	281	yes	no
<i>SDSM&amp;T</i>	3	3	MATH	281	yes	no
<i>SDSU</i>	3	3	STAT	281	yes	no
<i>USD</i>	3	3	STAT	281	yes	no
<i>World History</i>						
<i>BHSU</i>	3	3	HIST	111		no
	4 or 5	6	HIST	111 &112	yes	no
<i>DSU</i>	3	3	HIST	111	yes	no
	4 or 5	6	HIST	111 &112	yes	no
<i>NSU</i>	3	3	HIST	111	yes	no
	4 or 5	6	HIST	111 &112	yes	no
<i>SDSM&amp;T</i>	3	3	HIST	111	yes	no
	4 or 5	6	HIST	111 &112	yes	no
<i>SDSU</i>	3	3	HIST	111	yes	no
	4 or 5	6	HIST	111 &112	yes	no
<i>USD</i>	3	3	HIST	111	yes	no
	4 or 5	6	HIST	111 &112	yes	no

NOTE: "No Credit" indicates that the South Dakota public university system does not grant college credit for student performance on this examination. South Dakota public university system will only accept Advanced Placements scores recorded within five years from the time a student seeks credit by examination. Advanced Placement examinations do not meet the globalization or writing intensive requirements.

<sup>A</sup> Retroactive credits for FREN 101, 102, and 201 earned if 310 is completed with a grade of "C" or above.

<sup>B</sup> Retroactive credits for FREN 101, 102, and 201 may be earned if an appropriate upper-division course is completed with a grade of "C" or above.

<sup>C</sup> Course credit for French Literature, Computer Science AB, Latin Literature, and Italian Language and Culture will not be awarded to students entering the system with qualifying scores after June 2014.

<sup>D</sup> Retroactive credits for GERM 101/102/ 201 earned if 311 or 312 is completed with a grade of "C" or above.

<sup>E</sup> Retroactive credits for GERM 101, 102, and 201 may be earned if an appropriate upper-division course is completed with a grade of "C" or above.

<sup>F</sup> Retroactive credits for 101, 102, and 201 may be earned if 311 or 312 is completed with a grade of "C" or above.

<sup>G</sup> Retroactive credits for 101, 102 and 201 may be earned if an appropriate upper-division course is completed with a grade of "C" or above.

