Dual Program Agreement

sosu Department of Physics ISU Department of Physics, Nuclear and Electrical Engineering

Agreement

For An Articulated Physics/ Nuclear Engineering Dual Program Between South Dakota State University and Idaho State University

I. INTRODUCTION

Based upon a mutual respect for the integrity of dual academic programs and in an effort to better serve students desiring fundamental knowledge in physics as well as pursuing careers in Nuclear Engineering; South Dakota State University {SDSU) and Idaho State University {ISU) hereby enter into an agreement for an articulated Dual program that upon a student's successful completion in its entirety will result in a BS in Physics from SDSU and a MS in Nuclear Science and Engineering from ISU. Efficient completion of the program by students will encompass 3 years of attendance at SDSU fo

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students already matriculated at ISU are given the opportunity to complete the program in a timely manner. Termination becomes effective on the first day of July following the written notice of termination; this will enable any qualified SDSU student who completes the SDSU portion of the requirements of this agreement prior to the effective date of termination, July 1, to be admitted into the ISU program in the fall semester immediately following the effective termination date.

VI. PROGRAM CHANGES
As program graduation requirements change at either institution, this agreement will be updated by communicating the changes in the form of revision of the attachments to this agreement and will not, in and of itself, require revision ofthe agreement. The communication of curricular changes will occur in a timely fashion
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Attachment II: Requirements for the BS in Physics at SDSU completed prior to the MS in Nuclear Science and Engineering at ISU.

General Education Requirements (See Attachment I)

Maior Requirements (47 credit hours)
CHEM 112 and 112L- General Chemistry I and Laboratory
CHEM 114 and 114L- General Chemistry II and Laboratory
MATH 125 - Calculus II
MATH 225 - Calculus Ill
MATH 321- Different ial Equations
CSC 150 - Computer Science I

38 credits

4 credits
4 cr

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Attachment Ill: Plan of Study for the MS in Nuclear Science and Engineering at Idaho State University under this agreement.

At ISU, During Year 1 (Semesters 1 and 2), the 3-2 student will be considered an undergraduate with permission to take graduate level (5000 and 6000) courses. Undergraduates must maintain a minimum 12-credit load to be considered full time. A maximum of 12 graduate credits may be transferred to SDSU for completion of the BS in Physics at SDSU. The remainder of the 21 transferred credits must be undergraduate credits. ISU prefixes MATH, CE, NE, and NSEN will be transferred as SDSU prefixes MATH, CEE, NE, and GEN respectively.

Required courses for 3-2 BS/MS program4:

Semester 1 (Fall)
MATH

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Department

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3. Upon completion of the first year of studies at ISU a maximum of 21 ISU semester credits (12 graduate credits and 9 undergraduate credits) may be transferred for completion of the B.S. in Physics at SDSU.
An official transcript must be sent from ISU to the registrar of SDSU, and the student must request and
submit application materials for graduation from SDSU. The courses that can serve as transferred
credits from !SU are indicated in Attachment Ill.
4. The Physics Department at SDSU and the Department of Physics, Nuclear, and Electrical Engineering at ISU will each appoint a liaison to facilitate communication between the institutions and the smooth operation and implementation of the dual program. The liaison is indicated in the attachments to the agreement and may be changed by updating the pertinent attachment.
5. Idaho State University shall accept, for fall semester admission, at least one student in the program who has successfully completed the course work and any pertinent stipulations outlined in articles (1) and
(11) with a cumulative GPA of 3.0 or higher and meets all other criteria for admission. If more than one student in the program meets these criteria and if ISU desires to admit fewer than the totality of
qualified candidates; ISU may choose which students to admit based upon appropriate academic criteria of their own choosing. Such decisions would ideally be made in consultation with the SDSU liaison.
6. SDSU may recommend students with GPAs between 2.6 and 3.0 for admission to ISU. ISU is under no obligation to admit such students.
7. In order to be eligible for this program, students must provide all necessary application materials required by ISU no later than May 15th of the year they plan to matriculate to ISU.
8. The SDSU Department of Physics will provide necessary assistance and documentation that is required by the ISU Department of Physics, Nuclear, and Electrical Engineering for admission and degree accreditation requirements.
9. Students shall pay the appropriate tuition and fees to each institution for all course work taken at that institution. Residents of WICHE (Western Interstate Commission for Higher Education) states are
eligible for WUE (Western Undergraduate Exchange) tuition rates during their first year at ISU. The WUE reduced tuition is not automatic and application must be submitted to be considered. Similarly, during
the fifth year at ISU, students may be eligible for resident tuition rates through the WICHE WRGP
(Western Regional Graduate Program).
10. During their study at ISU, in order to facilitate the transfer of ISU credits to SDSU, the student's status with SDSU shall be maintained with the use ofthe hiatus code.
11. Stipulations:
a. All South Dakota Regental System Graduation Requirements and SDSU Institutional Graduation requirements as outlined by the SDSU Matriculation Year catalog will be satisfied by the student
either through coursework completed at SDSU, including transferred credits, or through transferred credits from ISU with the following clarifications/stipulations for students enrolled in this dual
program:
i. Upper division and/or graduate transferred credits from ISU will be viewed by SDSU as satisfying the "15 of the last 30 credits" institution requirement. These courses are considered as having "institutional credit" in a similar manner to how courses are treated in collaborative agreements between South Dakota Regental Institutions.
ii. Due to scheduling constraints, SDSU physics majors in this program are exempted from the requirement that system

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The majority of the requirement, 80%, will be satisfied in the first 64 credits and all system
general education requirements must be completed prior to matriculation at ISU.
iii. Students matriculated at ISU under this program are deemed as having received all necessary
permissions from SDSU to enroll and transfer a maximum of 12 ISU graduate credits towards
their undergraduate degree requirements. This implies exemption from the SDSU policy
requiring submission of a "Request to Use Graduate Credit to Fulfill Undergraduate Degree Requirements" Form or similar such forms to accomplish the transfer of said ISU graduate
credits towards their undergraduate transcript under the auspices of this agreement1

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students already matriculated at ISU are given the opportunity to compleif41lS Q q 1 0 0 1 465.12 270.4a op823Tj 0.04p.04

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Attachment I: General Education Requirements2 completed at SDSU prior to the MS in Nuclear Science and Engineering at ISU.

SGR #1: Written Communication
ENGL 101 - Composition I 3 credits
ENGL 201 OR 277 - Composition II OR Technical Writing 3 credits

SGR #2: Oral Communication
SPCM 101- Fundamentals of Speech 3 credits

SGR #3: Social Sciences I Diversity 6 credits
(6 hours in 2 disciplines)75 Tc 9.1 0 0 9.1 220.o77 Tc 2.001 0 Td (8rcipamTj o5Td (cMTc 604#4.6 Tm (SGR3.0125 Tc58891

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CHEM 114 and 114L- General Chemistry II and Laboratory
MATH 125 - Calculus II
MATH 225 - Calculus Ill
MATH 321- Differential Equations
CSC 150 - Computer Science I
PHYS 316 and 316L - Measurement Theory and Experiment Design and Laboratory PHYS 318 -Advanced Laboratory I
PHYS 331- Introduction to Modern Physics
PHYS 421 - Electromagnet ism
PHYS 451 - Classical Mechanics
PHYS 490 - Seminar (Capstone)
EE 220 and 220L - Circuits I and Laboratory PHYS 341 - Thermodynamics
PHYS 343 - Statistical Mechanics

Electives (36 credit hours):
Technical Electives (7 credit hours)
NE 435 - Introduction to Nuclear Engineering PHYS 471 - Quantum Mechanics
Free Electives (9 credit hours)
EM 331- Fluid Mechanics
PHYS 418 -Advanced Laboratory II
Electives
Directed Electives (19 credit hours)
Total ---

38 credits

4 credits
4 credits
4 credits
4 credits
3 credits
3 credits
2 credits
2 credit
3 credits
4 credits
4 credits
2 credits
4 credits
2 credits
2 credits

3 credits
4 credits

3 credits
1 credit
5 credits

120 credits

Coursework transferred to SDSU from Idaho State University3 21 credits

3 A maximum of 12 ISU graduate credits may be used as directed electives; the other nine will be ISU UG credits. Nineteen of the transferred credits will sat isfy the directive elective requirement and 2 of the transferred lelectis

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Course choice from optional list or 3 research cred