SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

Institutional Curriculum Requests

Institution: **University of South Dakota** ***Date:*** **10/21/2021**

Institutional representatives should provide direct links to PDF documents for each of the curriculum requests represented below. All requests should be posted on the campus Curriculum and Instruction website one week prior to the Academic Affairs Council meeting where the curriculum request is being considered.

New Unique Course			
Prefix & Number	***Course Title***	***Approval Date***	***Approval***
PSYC/SUST 434/534	Behavior and Sustainability	12/15/21	RH
Revised Course Requests			
Prefix & Number	***Course Title***		***Approval***
PHYS 581	Mathematical Physics	12/15/21	RH

Courses referenced above for approval have been reviewed by the Academic Affairs Council and the System Vice President for Academic Affairs and may be advanced forward for entry in the student information system. For those courses listed above that did not receive approval, additional clarification or justification will be necessary and should be re-routed through the curriculum review process on a separate "Institutional Curriculum Requests" form once all issues have been resolved.

Rebecca L. Hoey — 11/29/2021

Signature: System Vice President for Academic Affairs **Date**

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New Course Request

USD	**Sustainability & Environment**
Institution	**Division/Department**
Elizabeth M. Freeburg	10/21/2021
Institutional Approval Signature	**Date**

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
SUST/PSYC 434/534	Behavior and Sustainability	3

Course Description

The causes of environmental degradation are anthropogenic and so too are the solutions. This course examines different perspectives on the motivations of human behavior, drawing on diverse disciplines, including psychology, economics, and sociology. Theories of behavior change and behavioral intervention case studies will inform student efforts to design viable programs that promote improved sustainability through behavior change.

Pre-requisites or Co-requisites N/A
Registration Restrictions N/A

Section 2. Review of Course

2.1. Will this be a unique or common course (*place an "X" in the appropriate box*)?

☒ **Unique Course**

If the request is for a unique course, institutions must review the common course catalog in the system course database to determine if a comparable common course already exists. List the two closest course matches in the common course catalog and provide a brief narrative explaining why the proposed course differs from those listed. If a search of the common course catalog determines an existing common course exists, complete the Authority to Offer an Existing Course Form. Courses requested without an attempt to find comparable courses will not be reviewed.

Prefix & No.	Course Title	Credits
SUST 720	Communication and Change	3
SPCM 418	Environmental Communication	3

Provide explanation of differences between proposed course and existing system catalog courses below:

Existing courses focus on environmental communication and understanding whereas the proposed course emphasizes behavior. The course will examine the major mechanisms for inducing pro-environmental behavior, many of which are distinct from communication.

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

☒ **No**. Schedule Management, explain below:
This new course is created as part of the expansion of course offerings by a new faculty member.

3.2. Existing program(s) in which course will be offered (i.e., any current or pending majors, minors, certificates, etc.):
B.A./B.S., M.S., and Ph.D. Sustainability and B.A./B.S., M.A., and Ph.D. in Psychology

3.3. Proposed instructional method by university *(as defined by AAC Guideline 5.4)*:
If requesting an instructional method that is exempt from the Section Size Guidelines, please provide a brief description of how the course is appropriate for the instructional method, as defined in AAC Guidelines. R – Lecture

3.4. Proposed delivery method by university *(as defined by AAC Guideline 5.5)*:
U01 – Face-to-face

3.5. Term change will be effective:
Spring 2022

3.6. Can students repeat the course for additional credit?
☐ Yes, total credit limit: _____ ☒ No

3.7. Will grade for this course be limited to S/U (pass/fail)?
☐ Yes ☒ No

3.8. Will section enrollment be capped?
☒ Yes, max per section: 30 ☐ No

3.9. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course system database?
☐ Yes ☒ No

3.10. Is this prefix approved for your university?
☒ Yes ☐ No

Section 4. Department and Course Codes (Completed by University Academic Affairs)

4.1. University Department: Sustainability / Psychology

4.2. Banner Department Code: USUS / UPSY

4.3. Proposed CIP Code: 30.3301

Is this a new CIP code for the university? ☐ Yes ☒ No

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ACADEMIC AFFAIRS FORMS
Revised Course Request: Common Course
(Substantive Modifications)

Institution	Form Initiator	Dean's Approval Signature	Date
USD	Joel Sander	*John Dudley*	9/21/2021
Institution	**Form Initiator**	**Dean's Approval Signature**	**Date**
USD	Arts & Sciences/Physics	*Elizabeth M. Freeburg*	10/21/2021
Institution	**Division/Department**	**Institutional Approval Signature**	**Date**
SDSM&T		**See attached email**	9/9/2021
Institution	**Division/Department**	**Institutional Approval Signature**	**Date**
SDSU		**See attached email**	9/9/2021
Institution	**Division/Department**	**Institutional Approval Signature**	**Date**

Indicate universities that currently offer the common course:

☐ BHSU ☐ DSU ☐ NSU ☒ SDSMT ☒ SDSU ☒ USD

Section 1. Existing Course Title and Description

Prefix & No.	Course Title	Credits
PHYS 581	Mathematical Physics I	4

Course Description

The first of two-semester sequence covering mathematical methods essential to the study of physics. The topics include differential and integral Vector Calculus, theory and applications of complex variables, ordinary differential equations and applications of series and transform methods in their solutions.

Section 2. Modification(s) Requested

2.1. This modification will include (*place an "X" in the box for all that apply*):

☐ **Course Title change:** Mathematical Physics

☒ **Credit Hours change from** 4/3-4 to 4

☒ **Dual-listing at 400/500 level (existing PHYS 481 and PHYS 581)**

☒ **Course Content/Description change (write proposed new content/description below)**

This course looks at mathematical methods used to formulate and solve problems in various fields of physics. Topics are chosen from: series solutions, special functions, computational methods, complex variables, multi-variate methods, transform methods, and other areas of mathematical applications to physics.

Effective term of the change: 202280

2.2. Add justification for all changes noted above:

The USD PHYS-581 course description does not align with the USD PHYS-481 course description. The SDSMT PHYS-481/581 course description and the SDSU course description are identical to the USD PHYS-481 course description. The proposed USD PHYS-581 course description change brings all PHYS-481/581 course descriptions into alignment with the course description that the department feel is better. All courses will be 4 hours.

Section 3. Other Course Information

Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course database (Course Inventory Report)?

☐ Yes ☒ No

Section 4. Department and Course Codes (Completed by University Academic Affairs)

	Current		New
☐ **Change in University Department Code**	UPHY	to	N/A
☐ **Change in Banner Department Code**	UPHY	to	N/A
☐ **Change in CIP Code**	40.0810	to	N/A

From: Joel Sander <joel.sander@usd.edu>
Sent: Wednesday, December 15, 2021 9:27 AM
To: Freeburg, Beth M <Beth.Freeburg@usd.edu>
Subject: Re: FW: SDBOR follow up

Hi Beth,

Thanks for checking! Yes, the 500 level should be 4 credit hours to align with the 400 level.

Best,

Joel

On Wed, Dec 15, 2021 at 9:05 AM Freeburg, Beth M <Beth.Freeburg@usd.edu> wrote:

Good morning Joel,

Will you confirm that the 500 level should be 4 credit hours too? Currently, the 500 level is 3-4 and the 400 level is 4. Our form indicates 4 credits.

Beth

From: Joel Sander <joel.sander@usd.edu>
Sent: Monday, December 6, 2021 6:57 PM
To: Freeburg, Beth M <Beth.Freeburg@usd.edu>
Cc: Messersmith, Jessica J <Jessica.Messersmith@usd.edu>; Sun, Yongchen <Yongchen.Sun@usd.edu>
Subject: Re: FW: SDBOR follow up

Hi Beth,

Thank you for your willingness to include removal of PHYS-683 and taking care of the paperwork! I just heard back that both SDSMT and SDSU are supportive. Below are copies of their emails of support. Let me know if there is anything else you need from me. I am very willing to help however I can.

SDSU email:

Raynie, Douglas via coyotesusd.onmicrosoft.com Fri, Dec 3, 7:12 PM (3 days ago)

to Joel, Xinhua, Yongchen

SDSU has no plans to offer PHYS 683 in the foreseeable future.

Doug

SDSMT email:

Bai, Xinhua via coyotesusd.onmicrosoft.com 5:41 PM (1 hour ago)

to Joel, Richard, Douglas, Yongchen

Hi Joel,

We had a discussion today. People are fine with taking it off the books.

Notes from our discussion:
(1) Some of PHYS-683 contents not covered by other courses may be taught in independent study or a topic course when needed.
(2) People also made comment that contents of PHYS 481/581 Mathematical Physics may be adjusted to reflect the change so that students can be better served. - We didn't discuss this in depth though.

Could you/USD please initiate the process when you are ready and keep us updated so that we can make proper adjustment in our system?

Thanks,

Bai

Best regards,

Joel

On Thu, Dec 2, 2021 at 3:44 PM Freeburg, Beth M <Beth.Freeburg@usd.edu> wrote:

If you hear back that they are supportive, we can include this in our back to the SDBOR and we can take care of the paperwork.

From: Joel Sander <joel.sander@usd.edu>
Sent: Thursday, December 2, 2021 12:58 PM
To: Freeburg, Beth M <Beth.Freeburg@usd.edu>
Cc: Messersmith, Jessica J <Jessica.Messersmith@usd.edu>; Sun, Yongchen <Yongchen.Sun@usd.edu>
Subject: Re: FW: SDBOR follow up

Hi Beth,

Yes, we will proceed with reaching out to SDSMT and SDSU about addressing PHYS-683.

Best,

Joel

Re: [EXT] Re: PHYS-581 USD credit change

Bai, Xinhua <Xinhua.Bai@sdsmt.edu>
Thu 9/9/2021 5:19 PM
To: Raynie, Douglas <douglas.raynie@sdstate.edu>; Sander, Joel <Joel.Sander@usd.edu>
Cc: Sun, Yongchen <Yongchen.Sun@usd.edu>

Same here. No questions or concerns.

Cheers,

Bai

From: Raynie, Douglas <Douglas.Raynie@SDSTATE.EDU>
Sent: Thursday, September 9, 2021 3:41 PM
To: Sander, Joel; Bai, Xinhua
Cc: Sun, Yongchen
Subject: [EXT] Re: PHYS-581 USD credit change

*** This email is from an EXTERNAL sender. Use CAUTION before opening attachments or clicking links.***

SDSU concurs with your request. Good luck.

Doug

From: Joel Sander <joel.sander@usd.edu>
Sent: Thursday, September 9, 2021 4:37 PM
To: Raynie, Douglas <Douglas.Raynie@SDSTATE.EDU>; Bai, Xinhua <xinhua.bai@sdsmt.edu>
Cc: Sun, Yongchen <yongchen.sun@usd.edu>
Subject: PHYS-581 USD credit change

Hi Doug and Bai,

USD would like to change the course description for PHYS-581 to match that of SDSMT and SDSU and make it a true dual listed course. Changing the common course to match requires SDSU and SDSMT permission. Doing so requires your permission. This email gives you the chance to ask any questions you might have, raise any concerns you might have or grant permission. Here's a link to the Revised Course Request: Common Course form:
https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.dropbox.com%2Fs%2Fjlhbtq4ge6o9o6c%2FCrse%2520RevCom%2520PHYS%2520581%2520Dual%2520list%2520same%2520description%25202021%2520September.docx%3Fdl%3D0&data=04%7C01%7Cjoel.sander%40usd.edu%7Cfd97bc57d5c444c159a808d973dfba2e%7C9c36a7d0bf7b49919b78be91a52f0226%7C0%7C0%7C637668227600895449%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=aVTVV9qW6TSrggyT5x15s1gc9cR9mpdirVJzbnM%2BNcc%3D&reserved=0
<https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.dropbox.com%2Fs%2Fjlhbtq4ge6o9o6c%2FCrse%2520RevCom%2520PHYS%2520581%2520Dual%2520list%2520same%2520description%25202021%2520September.docx%3Fdl%3D0&data=04%7C01%7Cjoel.sander%40usd.edu%7Cfd97bc57d5c444c159a808d973dfba2e%7C9c36a7d0bf7b49919b78be91a52f0226%7C0%7C0%7C637668227600895449%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=aVTVV9qW6TSrggyT5x15s1gc9cR9mpdirVJzbnM%2BNcc%3D&reserved=0>

Best regards,

Joel Sander
Associate Professor and Graduate Coordinator
Department of Physics, Akeley 103| www.usd.edu<https://nam11.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.usd.edu%2F&data=04%7C01%7Cjoel.sander%40usd.edu%7Cfd97bc57d5c444c159a808d973dfba2e%7C9c36a7d0bf7b49919b78be91a52f0226%7C0%7C0%7C637668227600895449%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=w%2BhvhhRm2fLLyRqjaHXFOW8iRAO3rxF3uCiuYAJZqs8%3D&reserved=0>
[https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.google.com%2Fuc%3Fexport%3Ddownload%26id%3D1PM_gP6i_-fgW9ttWB86lQ-8_H92qaZTv%26revid%3D0B-LM210Hn-CcaDJHM1F6VDN1cERCZ0hNYUhzM054OzVJZDY4PQ&data=04%7C01%7Cjoel.sander%40usd.edu%7Cfd97bc57d5c444c159a808d973dfba2e%7C9c36a7d0bf7b49919b78be91a52f0226%7C0%7C0%7C637668227600895449%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=KO5fZ3gEasjGUgIlQBQE8T4nO%2B0hPng5RlrYe%2Bqhc54%3D&reserved=0]
https://nam11.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.wearesouthdakota.com%2F&data=04%7C01%7Cjoel.sander%40usd.edu%7Cfd97bc57d5c444c159a808d973dfba2e%7C9c36a7d0bf7b49919b78be91a52f0226%7C0%7C0%7C637668227600895449%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=1yqUJIPCI9qH060uAEfxm8mrhrUvo70gJMm1aVoUJAs%3D&reserved=0<https://nam11.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.wearesouthdakota.com%2F&data=04%7C01%7Cjoel.sander%40usd.edu%7Cfd97bc57d5c444c159a808d973dfba2e%7C9c36a7d0bf7b49919b78be91a52f0226%7C0%7C0%7C637668227600895449%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=1yqUJIPCI9qH060uAEfxm8mrhrUvo70gJMm1aVoUJAs%3D&reserved=0>