

Course Material Submission Form OAN Match Definition Form

Today's Date:	4-2-08
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Use this table to specify institutional data	
College/University:	Shawnee State University
Name and title of individual submitting on behalf of the college/university	
Name:	Dave Todt, PH.D
Title:	Associate Provost
Address:	940 Second Street, Portsmouth Oh 45662
Email:	dtodt@shawnee.edu
Phone:	740.351.3175
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<p>Indicate the reason for this submission:</p> <p> <input type="checkbox"/> New Course Match <input type="checkbox"/> Revised Materials - Faculty review panel requested clarification <input type="checkbox"/> Revised Materials - Institution submitting additional information <input checked="" type="checkbox"/> Revised Materials - Course content revised by institution, including situations of both content and credit hour change <input type="checkbox"/> Revised Materials - Other </p> <p>Describe specific revisions being made for "Revised Materials" submissions: Conversion from Quarters to Semesters.</p>
<p>Institutional Notes to Faculty Panel (the institution is encouraged to add any additional clarifications for this submission):</p> <p>Please see additional Documentation for requested information.</p>

Table 1 – Use this table to describe the course match for which materials are being submitted for the first time or revised.	
Proposed effective year and term of match (Final effective date will depend on actual approval of match by faculty panel. Effective Year and Term is the first term in which students taking the course will receive matching credit.)	
Semester institutions complete this row:	
2007 Academic Year	<input checked="" type="checkbox"/> Summer <input type="checkbox"/> Autumn <input type="checkbox"/> Spring
Quarter institutions complete this row:	
20 Academic Year	<input type="checkbox"/> Summer <input type="checkbox"/> Autumn <input type="checkbox"/> Winter <input type="checkbox"/> Spring
Ohio Articulation	OSC014

Number (OAN) (Use a separate form for each OAN.):	
Number of courses in the match:	1 (up to 10)
Current status of match:	<input checked="" type="checkbox"/> First time submission <input type="checkbox"/> Approved <input type="checkbox"/> Submitted <input type="checkbox"/> Disapproved <input type="checkbox"/> Error <input type="checkbox"/> Resubmitted <input type="checkbox"/> Pending <input type="checkbox"/> Error with enrollment <input type="checkbox"/> Not submitted
Course or Courses being matched to or currently matched to the OAN listed above. (Course Numbers must be exactly what will appear on a student's transcript.):	Course Number
	1. PHYS2201
	2.
	3.
	4.
	5.
	6.
	7.
	8.
	9.
10.	

Table 2 - Use this table to submit course materials for the first time or to revise previously submitted course materials. You must submit each course in a separate form, repeating the match definition information in Table 1 above for each form submitted.

Course Number. (Course Numbers must be exactly what will appear on a student's transcript.):	PHYS2201	Course Title:	Physics 1
Hours (be sure that the hours for this course matches the hours in the OAN.)			
<input checked="" type="checkbox"/> Semester Hours		<input type="checkbox"/> Quarter Hours	
Total Credit Hours	4	Lecture Hours	Laboratory Hours (if applicable)
Course Placement in Major:		<input type="checkbox"/> Major Requirement <input type="checkbox"/> Major Elective <input type="checkbox"/> Other	
Pre-Requisite Course work (if applicable) (Be sure this is consistent with the OAN definition): Prereq: MATH 1020 and instructor permission			
Catalog/Course Description: PHYS 2201 Physics 1 (Mechanics and Energy) (4) Introduction to classical physics. Topics include Newton's theory of motion and energy theory.			
Texts/Outside Readings/Ancillary Materials (Be sure that the text meets performance expectations): Your required text is Physics, 6th edition, by Giancoli.			
Course Objectives and/or Plan of Work: (Provide a clear indication of how the course objectives align with the matched OAN's learning outcomes. This will facilitate the faculty panel course review process.)			

Course content

Velocity, acceleration, 1-dimensional motion with constant acceleration, vectors, 2-dimensional motion with constant acceleration, forces, Newton’s laws of motion, centripetal force, work and energy, momentum, torque and rotational dynamics, gas laws, heat flow, specific heat, latent heat, first law of thermodynamics, heat engines, second law of thermodynamics, entropy.

Course objectives

By the end of the course, you should be able to

- A. identify the most significant concepts and most useful relationships (i.e., equations) for any given physical phenomenon,
- B. describe verbally and in writing your understanding of any given physical phenomenon or problem, regardless of how complete or incomplete you feels that understanding to be,
- C. demonstrate a conceptual understanding of the most significant concepts by rephrasing, paraphrasing, illustrating, drawing diagrams, or writing short explanations, and
- D. apply fundamental physical concepts to solve quantitative problems and answer conceptual questions.

Description of Assessment and/or Evaluation of Student Learning (The

assessment plan needs to be appropriate for the expected rigor of the course) :

Calculation of the final grade

Semester exams and final exam	65%
Homework	15%
Labs	15%
Other in-class work	5%

Grading scale

100% > A ≥ 93.3%	93.3% > A- ≥ 90%	
90% > B+ ≥ 86.6%	86.6% > B ≥ 83.3%	83.3% > B- ≥ 80%
80% > C+ ≥ 76.6%	76.6% > C ≥ 73.3%	73.3% > C- ≥ 70%
etcetera		

Master Syllabi and Working Syllabi (if both are used):

Tentative reading schedule for the first few weeks of Physics 2201

Date	Reading assignment
August 27	Introducing the course; no reading
August 29	Chapter 2, sections 1 – 3
August 31	Chapter 2, section 4
September 3	Labor day; no class
September 5	Chapter 2, sections 5 – 7
September 7	Chapter 2, section 8
September 10	Chapter 3, sections 1 – 4
September 12	Chapter 3, sections 5 and 6
September 14	Review; no new reading

September 17 FIRST EXAM
September 19 Chapter 4, sections 1 – 4
September 21 Chapter 4, sections 5 and 6

Additional Documentation:

Transfer Assurance Guide Information for Physics Courses at Shawnee State University: Physics 2201

I. Institutional Information

University Shawnee State University
Name of individual submitting on behalf of the university
Name Dr. Larry Lonney
Address Natural Sciences Department
Shawnee State University
940 Second Street
Portsmouth, OH 45662
Email llonney@shawnee.edu
Phone (740) 351-3426
Lecture/Lab Schedule Since Dr. Jim Simmons teaches most of our algebra-based physics, I am using his schedule for lecture topics and labs.

II. Course Information

Course Number Physics 2201 Course Title Physics 1
Total Credits 4 semester hours Total lecture and lab hours per week 6
Prerequisites MATH 1020 (Intermediate Algebra) or permission of instructor
Lecture hours per week See * below
Lab hours per week See * below
Textbook Physics: Principles with Applications (6th Edition) by
Douglas C. Giancoli

* All Shawnee State University physics classes are taught in specifically designed rooms that can accommodate either lecture or lab. Time blocks and class sizes are structured in a way that can also accommodate either lecture or lab. For example, one section of Physics 2201 meets from 2-4 on Monday, Wednesday and Friday, and has a maximum class size of 24 students. Separate lab sections are not scheduled; thus, the instructor can divide lecture and lab time as he deems appropriate.

III. Lecture Topics Lecture Days

Significant figures and units	1 day	
Kinematics: velocity	1 day	
Kinematics: acceleration	1 day	
Kinematics: motion with constant acceleration	1 day	
Kinematics: free fall	1 day	
Kinematics: graphs	1 day	
Introduction to vectors	1 day	
Projectile motion	2 days	
First exam	1 day	
Newton's first and second laws	2 day	
Newton's third law; free-body diagrams	2 day	
Problem solving with Newton's laws	3 days	
Kinematics & dynamics of circular motion		2 days
Second exam	1 day	
Work and energy; work-energy theorem	2 days	
Conservation of mechanical energy	2 days	
Energy and non-conservative forces	1 day	
Momentum; impulse	3 days	
Third exam	1 day	
Rotational dynamics; torque; moment of inertia	2 days	
Problem solving in rotational dynamics	1 day	
Angular momentum	1 day	
Equilibrium	2 days	
Gas laws; kinetic theory	2 days	
Specific heat	1 day	
Latent heat	1 day	
1st law of thermodynamics	2 days	
Heat engines		1 day
2nd law of thermodynamics; entropy	2 days	

IV. Laboratory Topics

1 Introduction to the Motion Detector
(interpreting graphs of x vs. t , and v vs. t)

2 Constant Acceleration Kinematics
(interpreting graphs of x vs. t , v vs. t , and a vs. t)

3 Vectors

(addition of vectors, calculating components, magnitudes and directions)

4 Kinematic Graphs (interpreting graphs of x vs. t , v vs. t , and a vs. t)

5 Terminal Velocity

(Newton's second law, interpreting graphs of x vs. t)

6 The Force Table

(Newton's second law, calculating components of vectors)

7 Newton's Second Law (interpreting graphs of v vs. t , interpreting graphs of a vs. F_{net})

8 Friction

(Newton's second law, kinetic friction, static friction)

9 Energy of a Tossed Ball

(Kinetic energy, potential energy, conservation of mechanical energy)

10 Work and Energy

(work, work-energy theorem, Hook's law forces)

11 Hook's law

12 Momentum, Energy, and Collisions

(conservation of momentum, elastic collisions, inelastic collisions)

IV. (cont.)

Laboratory Topics

13 Momentum and Impulse

(Impulse-momentum theorem)

14 Rotational dynamics

(torque, moment of inertia, rotational equilibrium)

15 Heat

(specific heat, latent heat)

16 Ideal Gasses

(Boyle's law, Charles' law, Gay-Lussac's law)

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OBR Use

Approved-Effective Date	
Pending (i.e. Additional Information Requested)	
Disapproved	
Today's Date	

Course Material Submission Form

Instructions and notes

1. Submit completed forms to atpanels@regents.state.oh.us.
2. Use this form to define course matches and to submit new or revised course materials for faculty panel review. Please do not submit a form for multiple OANs or Courses.
3. For course renumbering and credit hour revision, remember to withdraw the old match.
4. For course renumbering and credit hour revision, you may want to include information about how the new numbers relate to the old in the Institutional Notes to the Faculty Panel.
5. Click check boxes to check the item. Text fields will expand as you enter information. Press tab to move forward through form. Press Shift-tab to move backward. Note that these tables are implemented as MS Word tables. Keep that in mind as you are copying and pasting between your syllabi and this form. It is possible to paste tables as nested tables. Use the Edit Menu "Paste as Nested Tables" selection.
6. Once you are done entering your information, save the data file. Under the File menu, choose "Save as" and then enter the name (no spaces!) of the file using the following naming conventions:
 - a. For course material submissions: **Institution-OAN-Course Number-Sequence-Version. Institution** is the 4 character HEI institution designation. **OAN** is the Ohio Articulation Number whose match is being defined or revised. **Course Number** is the **transcript** course number. **Sequence** is an indication of which course of a multi-course match is addressed in this form. The sequence is of the form (n of m) for an m-course match. For example, 1 of 1 for a single course match or 1 of 2 and 2 of 2 for a 2 course match. **Version** is a number indicating the revision number of this submission. Start with "Ver1" for the first time submission and include the "Ver".

Example:

If you are submitting course materials for Rhodes Community College MATH110 for OMT005 the name of the file would be LMTC-OMT005-MATH110-(1 of 1)-Ver1.

If you are submitting course materials for Rhodes Community College MATH111 and MATH112 for OMT006 the name of the files would be LMTC-OMT006-MATH111-(1 of 2)-Ver1 and LMTC-OMT006-MATH112-(2 of 2)-Ver1.

7. Course materials must be submitted according to timelines below:

Considering the submissions of **new** courses for TAG matches, our goal is to work toward a timeline as follows:

Submit Course Material:	Start of Term 1
Faculty Panels Review Submitted Courses:	During Term 1
Approved course is effective:	Start of Term 2
Approved course is matched for transcript processing:	Term 3

A new match will have to be approved according to the timeframes below:

Course Approval Sample Timelines

Quarter Institutions

	Summer	Autumn	Winter	Spring
Course Material Submitted for Review	By 6/1	By 8/15	By 1/1	By 3/1
Faculty Panel Reviews Completed	By 8/1	By 12/31	By 2/28	By 5/31

Semester Institutions

	Summer	Autumn	Spring
Course Material Submitted for Review	By 6/1	By 8/15	By 1/1
Faculty Panel Reviews Completed	By 8/1	By 12/31	By 5/31

- Remember that all institutions are required to have at least one course match for each OAN in all TAGs for which they have corresponding programs.
- This form should be used for all submissions or resubmissions starting immediately.
- If you encounter problems or have questions, please contact any of the individuals listed below:

Jim Ginzer (614) 752-9486 jginzer@regents.state.oh.us
 Sam Stoddard (614) 752-9532 sstoddard@regents.state.oh.us
 Brett Berliner (614) 466-2004 bberliner@regents.state.oh.us