

**PHY 3720 – NUCLEAR PHYSICS • 4 Credit Hours**

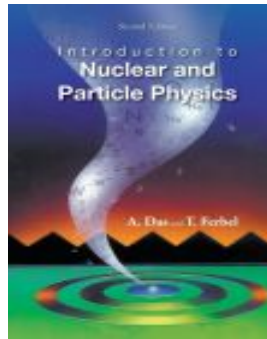
**WINTER 2021**

**Instructor:** Yuejian Wang  
**Office:** 164 Hannah Hall  
**Office hours:** by appointment  
**Class Room:** online

**E-mail:** ywang235@oakland.edu  
**Office phone:** 248-370-3423  
**Class Time:** MWF 8:00 – 9:07 pm

**Textbook:**

Introduction to Nuclear and Particle Physics: 2nd Edition, Ferbel Thomas, Thomas Ferbel



**The class will be synchronously delivered by using Yuja or Zoom.**

**Homework:** The assignments are due on the date specified on the syllabus. **The homework should be typed with a word processing program, such as Word, rather than handwriting.** The home work must be submitted by OU email, sending to [ywang235@oakland.edu](mailto:ywang235@oakland.edu). Late homework will not be graded. Only in case of serious circumstances an extension may be granted. Please send me an e-mail about this. No e-mailed homework is accepted.

**Exams:** **There will be a total of three exams. The exam will be held online and proctored by Proctor U.** All exams are closed book. You may bring a 4.25" x 5.5" sheet with formulae; you can write on both sides of the sheet with hand written formulae, relevant constant, and personal notes, but no examples of solved problems. After you finish the exam, please scan your work including exam, your answer, and formula sheet, to generate a single PDF and then send to [ywang235@oakland.edu](mailto:ywang235@oakland.edu). Please generate a clear PDF. Notice: The index card may not be photocopied, reduced or computer generated. Violation of this rule will result in failure of the examination.

Please notice that clear writing and clarity of expression is a very important component of the exam.

A calculator is required, plus a fine point pencil, and an eraser.

Exam # 1: Monday, Feb 8

(Chapters 1-3)

Exam # 2: Monday, Mar. 15 (Chapters 4-6)  
Exam # 3: Monday, Apr. 26 at 8:00 AM! (Chapters 8-11)

**Make-up Policy:** In order to be fair to the majority of students who take the exams on time, the general policy is: *No make-up exams* will be given.

A score of zero will be entered for missed a test.

If you cannot be present for an exam due to a documentable serious and unavoidable emergency, contact me before the exam, if possible, or as quickly as possible after the exam to see if an exception can be made.

**Grading:** Course grades will be posted on Moodle.

<b>Homework</b>	<b>20%</b>
<b>Exam 1</b>	<b>25%</b>
<b>Exam 2</b>	<b>25%</b>
<b>Exam 3</b>	<b>30%</b>

**Grading scale:**

<b>Final grade</b>	<b>Total grade</b>	<b>Honor points</b>
<b>A</b>	<b>96-100</b>	<b>4</b>
<b>A-</b>	<b>90-95</b>	<b>3.7</b>
<b>B+</b>	<b>85-89</b>	<b>3.3</b>
<b>B</b>	<b>80-84</b>	<b>3</b>
<b>B-</b>	<b>75-79</b>	<b>2.7</b>
<b>C+</b>	<b>70-74</b>	<b>2.3</b>
<b>C</b>	<b>65-69</b>	<b>2.0</b>
<b>C-</b>	<b>60-64</b>	<b>1.7</b>
<b>D+</b>	<b>55-59</b>	<b>1.3</b>
<b>D</b>	<b>50-54</b>	<b>1.0</b>
<b>F</b>	<b>&lt; 50</b>	<b>0</b>

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**Add/Drops:**

The University's add/drop policy will be explicitly followed. It is the student's responsibility to be aware of the university deadline dates for dropping courses.

**Special Considerations**

Students with a documented learning or physical disability must contact the Office of *Disability and Support Services*, 121 North Foundation Hall, (248) 370-3266,

and inform the instructor of special needs during the first week of classes. For more information, visit <http://www.oakland.edu/dss>.

### **Policy on Academic Misconduct**

The University's regulations that relate to academic misconduct will be fully enforced. Any student suspected of cheating and/or plagiarism will be reported to the Dean of Students and, thereafter, to the Academic Conduct Committee for adjudication. Anyone found guilty of academic misconduct in this course may receive a course grade of 0.0, in addition to any penalty assigned by the Academic Conduct Committee. Students found guilty of academic misconduct by the Academic Conduct Committee may face suspension or permanent dismissal. The full policy on academic misconduct can be found in the General Information section of the Undergraduate Catalog.

### **Excused Absence Policy**

University excused absences applies to participation as an athlete, manager or student trainer in NCAA intercollegiate competitions, or participation as a representative of Oakland University at academic events and artistic performances approved by the Provost or designee. For the excused absence policy, see <http://www.oakland.edu/?id=6850&sid=175>.

## PHY 3720 TENTATIVE SCHEDULE – WINTER 2021

Date	Chapter	Homework
1/6	2	Home work: 1,3,5,7,9,11. Due: 9:00PM of 1/13.
1/8	2	
1/11	2	
1/13	3	
1/15	3	
1/18	<b><i>Martin Luther King Jr. Day, classes suspended</i></b>	
1/20	3	Home work: 1,2,3,4,5,6. Due: 9:00PM of 1/25.
1/22	3	
1/25	1	Home work: 1,3,5,7,9,11. Due: 9:00PM of 2/3.
1/27	1	
1/29	1	
2/1	1	
2/3	4	
2/5		
2/8	<b>EXAM 1 (Chapters 1-3)</b>	
2/10	4	Home work: 1,3,5,7,9,11. Due: 9:00PM of 2/12.
2/12	5	
2/15		
2/17		
2/19		Home work: 1,3,5,7,9,11,13. Due: 9:00PM of 3/1.
<b><i>2/20-2/28: Winter recess, classes suspended</i></b>		
3/1	6	Home work: 1,3,5,7,9,11. Due: 9:00PM of 3/10.
3/3		
3/5		
3/8		
3/10	8	
3/12		
3/15	<b>EXAM 2 (Chapters 4-6)</b>	
3/17	8	Home work: 1,2,3,4,5,6. Due: 9:00PM of 3/22.
3/19		
3/22	9	Home work: 1,2,3,4,5,6. Due: 9:00PM of 3/31.
3/24		
3/26		
3/29		
3/31	10	Home work: 1,2,3,4. Due: 9:00PM of 4/9.
4/2		
4/5		
4/7		
4/9	11	Home work: 1,2,3,4,5,6. Due: 9:00PM of 4/9.
4/12		
4/14		
4/16	<b>REVIEW</b>	
4/26	<b>EXAM 3 (Chapters 8-11), 8:00-10:30 PM</b>	