

**black text: projected and tentative; purple text: past; blue text: hotlinks;**  
**red text important announcements; green text: fixed final exam**

**Note:** Schedule is “projection” and revisions will be announced in class and subsequently posted online.

**Key:** IC = In-class graded exercise, HW = Homework, LecXX = synchronous lecture, and aLecYY = asynchronous lecture due to Instructor having a conflict.

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- Week 01** Aug 31 (Lec01) Class Starts, Introduce the Course, IC-0831. Ch 1.  
 Sep 02 (Lec02) Ch. 1 continued, IC-0902(?).  
 Sep 04 (Lec03) Finish Ch. 1. Start Ch. 2. Check ELS gradebook to see your grade(s)!
- Week 02** Sep 07 **No Class (Labor Day).**  
 Sep 09 (Lec04) **HW1-0914 described. Due at start of class on Mon. Sep 14.**  
 Ch. 2 continue – free particle  
 Sep 11 (Lec05) Ch. 2 continue – free particle, infinite square well.  
 Note: HW1 rubric, discussion board, and clarification of PDF needing to contain all the graded work ADDED.  
 Note: next week we will have asynchronous lectures, so please email questions/comments to me.
- Week 03** Sep 14 (aLec06) **HW1-0914 due at start of this class (grades to be posted by start of class on Monday, 21 Sept).**  
 Ch. 2 continue – infinite square well, harmonic potential  
 Sep 16 (aLec07) Ch 2 continue – harmonic potential, first look, algebraic method  
 Sep 18 (aLec08) Ch. 2 continue – harmonic potential, second look, algebraic method
- Week 04** Sep 21 (Lec09) Ch. 2 continue – harmonic potential, finish, start analytic method.  
 Grades of HW1 posted.  
**HW2-0928 posted and Due at start of class on Mon. Sep 28.**  
 Sep 23 (Lec10) Ch. 2 continue – harmonic potential, analytic method finished.  
 Meisel “shows” transparency demo of Group/Phase Velocity?  
 [Not “must see TV”!]  
 Sep 25 (Lec11) Ch. 2 continue – Free particle (second look), and Start “Rest of Ch. 2”

- Week 05** Sep 28 (Lec12) Ch. 2 continue - Start "Rest of Ch. 2" & First discussion of Quiz1  
**HW2-0928 due at start of class.**
- Sep 30 (Lec13) Ch. 2 continue - Start "Rest of Ch. 2"  
Second discussion of Quiz 1 mechanics and timing.
- Oct 02 (Lec14) Ch. 2 continue - Start "Rest of Ch. 2"  
(not the class-free day for Homecoming as projected before COVID)  
Final discussion of Quiz 1 mechanics and timing is **FIXED**.  
**IC09-1006 assigned at the end of class and  
due on TUESDAY, 06 Oct, by 1900 hrs (7:00 pm).**  
*Topics, problems, other things to cover for review on 07 Oct.*
- Week 06** Oct 05 (Lec15) Finish Ch. 2. Last day of new material eligible for Quiz 1.  
**IC09-1006 due on TUESDAY, 06 Oct, by 1900 hrs (7:00 pm).**  
*Topics, problems, other things to cover for review on 07 Oct.*
- Oct 07 (Lec16) **Student-Driven Review** based on input from IC09-1006.  
**Quiz 1 opens at the end of class.**  
**Part A is due by the start of the next class, which is Friday 09 Oct 0935 hrs**  
**Part B is due by the start of the next class, which is Friday 09 Oct 0935 hrs**
- Oct 09 (Lec17) Review of Quiz 1. **IC10-1009 is Part C of Quiz 1 and  
due by the start of the next class.**
- Week 07** Oct 12 (Lec18) Start Chapter 3. Preamble, linear algebra, Matrix formalism.
- Oct 14 (Lec19) Ch. 3. Mathematical Language and Formalism details.  
Hermitian operators and measurables/observables.  
Do/Attempt Pr 3.44 (3<sup>rd</sup> edition) which is Pr. 3.37 (2<sup>nd</sup> edition)  
before the start of the next lecture.
- Oct 16 (Lec20) Ch. 3. Perform the work of Problem mentioned in last lecture.  
Finish Ch. 3. **HW3-1026 due at the star of class on 26 Oct.**  
**Start Reading Ch. 4, if you have not done it.**
- Week 08** Oct 19 (Lec21) Ch. 4 continued. Target date for having the grades of Quiz 1 posted.  
Pr. 3.44 (3<sup>rd</sup> ed) (3.37 in 2<sup>nd</sup> ed) worked in class. Start Ch. 4.
- Oct 21 (Lec22) Ch. 4, full plunge, finish at general radial equation.
- Oct 23 (Lec23) Worked problem 3.15 in class.  
Ch 4. Infinitely high and thick "spherical well" and start <sup>1</sup>H.

**Week 09** Oct 26 (Lec24) **HW3-1026 due at the start of class today, 26 Oct.**  
**HW4-1102 to be posted today, due start of class 02 Nov.**  
Finish <sup>1</sup>H

Oct 28 (Lec25) Ch. 4: Angular Momentum. Sec. 4.3

Oct 30 (Lec26) Ch. 4: Angular Momentum (eigenfunctions) to be finished.  
Spin. Sec. 4.4

**Week 10** Nov 02 (Lec27) **HW4-1102 due start of class Nov. 02.**  
Ch. 4: Spin continues.  
**(Questions/Problems/Issues for Q2 review is IC15-1102 assigned.)**

Nov 04 (Lec28) Finish Sec. 4.4 by doing Pr. 4.30 (4.27 in 2<sup>nd</sup> ed), and discussing  
Spin in magnetic fields and Clebsch-Gordan coefficients.  
Leave Sec. 4.5 for the interested and Sec. 4.5 will not be part of the  
Graded material for this course.

**(Questions/Problems/Issues for Q2 review is IC15-1102 assigned.)**

Nov 06 (Lec29) Start Ch. 5. Sec. 5.1.  
**(Questions/Problems/Issues for Q2 review is IC15-1102 assigned.)**

**Saturday Nov 07 2359 hrs: IC15-1106 due.**

**Week 11** Nov 09 (Lec30) **Review for Quiz 2 (Q2).** (HW4 grades are posted.)  
**Format for Q2 will follow the same format use for Q1.**  
**Q2-1113 posted/available on Canvas by Noon on 09 Nov.**  
**Q2 will focus on material in class since Q1, primarily focusing on content in Ch. 3 and 4,**  
**but building on the content covered since the start of the course.**  
**Q2-1113 Part A due by 0935 hrs on 13 Nov.**  
**Q2-1113 Part B due by 0935 hrs on 13 Nov.**

**Nov 11** **No Class, Veterans Day**

Nov 13 (Lec31) Class Period for Self-grading Q2-1113 (known as Part C).  
**Your Part C will be IC16-1113, due by 09:35 hrs on 16 Nov.**

- Week 12** Nov 16 (Lec32) **IC16-1113 due by start of class (Q2 Part C).**  
Finish Ch. 5:  $T^*$  estimate & “walkabout” Sec. 5.2-5.3. Start Ch. 6.
- Nov 18 (Lec33) Ch. 6. Sec. 6.1-6.3
- Nov 20 (Lec34) Ch. 6. Sec. 6.8
- Week 13** Nov 23 (Lec35) Target for having Q2 grades posted. Flex Day” for material presented after Q2 (Ch. 5 and Ch. 6).  
**First Discussion of What the Final Exam (covers the entire course) may be?**  
Tentative start date for Ch. 12 – “A first look”
- Nov 25 **No Class, Thanksgiving Holiday**
- Nov 27 **No Class, Thanksgiving Holiday**
- Week 14** Nov 30 (Lec36) **Course Evaluations open for submissions.**  
Students can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>.  
Tentative start date for Ch. 12 – “A first look”  
Qubits?
- Dec 02 (Lec37) Start one kind of algorithm: Deutsch Algorithm.
- Dec 04 (Lec38) **HW5-1202 due by start of class Monday, 07 Dec (next lecture).**  
Finish Deutsch Algorithm and sketch extension by Jozsa.
- Week 15** Dec 07 (Lec39) **HW5-1202 due by start of class.**  
Finish any remaining parts of Classical vs Quantum Algorithm.
- Dec 09 (Lec40) Review of course material in preparation for Final Exam.  
**Last Day of Lecture.**
- Dec 11 **No Class, Reading Day.**  
**Deadline for Course Evaluations.**  
Students can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>.

### Final Exam (Group 17C):

**Note: Whereas asynchronous participation was permitted during most of the course, the Final Exam is only available as a synchronous activity. Please make the arrangements necessary to adjust your schedule.** Note added 2020-10-28.

Thursday, 17 December 2020, 12:30 pm - 2:30 pm (1230 hrs - 1430 hrs).  
Final Exam covers material from the entire course.  
All course activities must be completed by 1700 hrs on Friday, 18 December 2020.