| J Charles Hicks | DEPARTMENT OF PHYSICS Fhysics 2A - Mechanics |
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|  | http://physics.ucsd.edu/students/courses/fall2007 |
| WEB: | Charles Hicks <br> Office: 4114 Mayer <br> Email: jchicks@physics.ucsd.edu <br> Office Hours: Thursdays 09:00-10:00 Mayer 4114 |
| INSTRUCTOR: | Patti Hey <br> 1138 Urey Hall Addition |
| Phone: x21468 |  |

and final exam will resemble the homework problems, I personally feel that solving problems is the only way to really learn the concepts and techniques required in physics. Hence I strongly encourage you to work through all of the assigned problems as well as additional problems if you feel you need more work in a given area. You are encouraged to address any questions you have concerning the homework problems in the discussion sessions. Additionally you should feel free to bring up these questions during office hours.

Additionally the TA will post the solutions to the assigned problems each week prior to the quizzes on the website.

QUIZZES:

WHOM TO SEE: Sharmilla Poddar, 116 Urey Hall Addition, Physics Dept. Student Affairs Office, if you have any difficulties using StudentLink/WebReg to add/change/drop, drop from waitlists, have any questions about adding or dropping the course, or to get appropriate authorization for such actions. The teaching assistant if you have any problems regarding problem solving methods.
The instructor if you have basic questions about the subject matter or grading issues.

ADD/DROP: No add/drop cards will be signed by the instructor or TA. Use StudentLink to add/change/drop/drop from wait-lists.

DEADLINES:
Add: October 12, 2007
Drop without a "W" on transcript: October 26, 2007
Drop without an "F" on transcript: November 30, 2007

COURSE OUTLINE
Charles Hicks
Physics 2A
Fall 2007

| LECTURE NUMBER (Start Date) | TOPIC (Chapter) | QUIZ <br> SUBJECT <br> (Date) | ASSIGNED PROBLEMS |
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| $\begin{gathered} 1-3 \\ \text { (Sept. 28) } \end{gathered}$ | Introduction (1); <br> Linear Motion (2); Vector Description of Motion (3); | $\begin{aligned} & \text { Chpts. 1,2,3 } \\ & \text { (Oct. 5) } \end{aligned}$ | $\begin{aligned} & \text { Ch. 2:14,18,23,30,36,51,52,59,61, } \\ & 78 \\ & \text { Ch. 3:3,7,8,9,12,15,24,29,43,45, } \\ & 48,53 \end{aligned}$ |
| $\begin{gathered} 4-6 \\ \text { (Oct. 5) } \\ \hline \end{gathered}$ | Motion in More Than One Dimension (4); | Chpts. 4 (Oct. 12) | $\begin{aligned} & \text { Ch. 4: 4,5,9,17,18,25,28,33,49, } \\ & 54,63 \\ & \hline \end{aligned}$ |
| $\begin{gathered} 7-9 \\ \text { (Oct. 12) } \end{gathered}$ | Forces and Motion (5); Application of Newton's Laws (6); | Chpts. 5,6 <br> (Oct. 19) | ```Ch. 5: 3,5,8,11,18,26,35,36,41, 50,67 Ch. 6: 3,7,9,11,12,16,20,25``` |
| $\begin{gathered} 10-12 \\ (\text { Oct. 19) } \end{gathered}$ | Application of Newton's Laws (6); <br> Work, Energy, and Power (7); | Chpts, 6,7 <br> (Oct. 26) | $\begin{aligned} & \text { Ch. } 6: 35,36,37,46,51,54,57 \\ & \text { Ch. 7: } 3,6,7,10,14,19,22,27,31, \\ & 35,42,43,48,49,56,57,74,75 \end{aligned}$ |
| $\begin{gathered} 13-15 \\ (\text { Oct. 26) } \end{gathered}$ | Conservation of Energy (8); <br> Systems of Particles, Center of Mass (10) | Chpts. 8, 10 <br> (Nov. 2) | Ch. 8: 2,6,7,8,15,17,26,28, <br> 29,30,35,36 <br> Ch. 10: 1,3,5,8,9,19,21,22,27,29, <br> 37,38,42,48,50,51,63,67 |
| $\begin{gathered} \hline 16-18 \\ (\text { Nov. 2) } \end{gathered}$ | Review; Impulse, Collisions, and Conservations Laws (11) | Chpts. 11 <br> (Nov. 9) | $\begin{aligned} & \text { Ch. 11: 1,3,5,9,13,22,27,30,33, } \\ & 36,38,40,42,45,48,50,51,53,57,67 \end{aligned}$ |
| $\begin{gathered} \hline 19-21 \\ (\text { Nov. } 9) \end{gathered}$ | Rotational Motion (12); Angular Momentum (13) | Chpts. 12,13 <br> (Nov. 16) | $\begin{aligned} & \text { Ch. 12: 2,5,6,10,14,15,17,20,22, } \\ & 25,26,34,37,39,42,45,60,63,64, \\ & 67,72,74 \\ & \text { Ch. } 13: 1,4,6,7,9,11,12,18,19,25,28 \\ & \hline \end{aligned}$ |
| $\begin{gathered} 22-24 \\ (\text { Nov. 16) } \end{gathered}$ | Angular Momentum (13); Static Equilibrium (14) | No Quiz, Thanksgiving | $\begin{array}{\|l\|} \hline \text { Ch. } 13: 30,33,37,40,42,43, \\ 56,65 \\ \text { Ch. } 14: 2,3,9,11,12,13,16, \\ 17,18,19 \\ \hline \end{array}$ |
| $\begin{gathered} 25-27 \\ \text { (Nov. 27) } \end{gathered}$ | Static Equilibrium (14); Oscillatory Motion (15) | Chpts. 14,15 <br> (Nov. 26) | $\begin{array}{\|l\|} \hline \text { Ch. 14: } 25,27,29,31,34,45, \\ 49,53,60 \\ \text { Ch. } 15: 3,5,9,13,19,33,35, \\ 45,69 \\ \hline \end{array}$ |
| $\begin{gathered} \hline 28-30 \\ \text { (Dec. } 4) \\ \hline \end{gathered}$ | Gravitation (9); Review | $\begin{aligned} & \text { Chpts. 15, } 9 \\ & \text { (Dec. 3) } \\ & \hline \end{aligned}$ | Ch. 9:11,17,45,51 |

