

Atoms, Molecules and Reactions (AMR) 2011-12
Academic Fair Handout

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Home page: Will be available through the Evergreen Academic Web Pages

Credits Offered:

| Quarter | Quantum Mechanics | Inorganic Chemistry | Thermodynamics | Laboratory |
|---------|-------------------|---------------------|----------------|------------|
| Fall | 4 cr | 8 cr | 0 | 4 cr |
| Winter | 4 cr | 4 cr | 4 cr | 4 cr |
| Spring | 4 cr | 0 | 8 cr | 4 cr |

Part-time options: lecture portions of the program are available for part time students. Lab is not available.

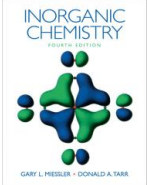
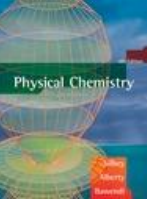
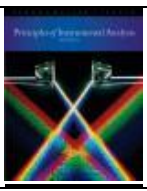
Pre-requisites:

- All students must have one year of college chemistry
- For quantum mechanics and thermodynamics – differential and integral calculus is required

This is an upper division program. All credits (48) are upper division science credits.

How to be ready for AMR: Please review your general chemistry and calculus (calculus is required only if you are taking Thermodynamics & Quantum Mechanics) over the summer.

Textbooks:

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|---|---|
|  | Inorganic Chemistry, 4 th Edition by Donald A. Tarr, Gary L. Miessler Prentice Hall Publishers, copyright 2011 ISBN-10: 0136128661 ISBN-13: 9780136128663 |
|  | Physical Chemistry, 4th Edition Robert J. Silbey, Robert A. Alberty, Mouni G. Bawendi Published by John Wiley and Sons copyright July 2004, ©2005 ISBN 978-0-471-21504-2 |
|  | Principles of Instrumental Analysis, 6th Edition By Douglas A. Skoog; F. James Holler; Stanley R. Crouch Brooks/Cole Publishers, Copyright 2006 ISBN: 0495012017 / 9780495012016 |
| | You need to have access to a molecular model kit. If you are looking to purchase I recommend http://www.cochranes.co.uk/show_category.asp?id=43 [Orbit Organic and Inorganic Individual Set] |
| | You will need a lab notebook if you are taking the program for 16 credits |