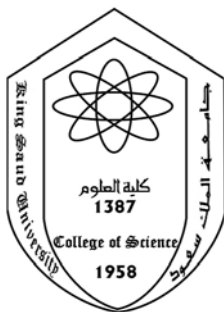


King Saud University  
College of Science  
Geology and Geophysics  
Department.



جامعة الملك سعود

## Petrology (GEO 320)

Academic Year 1431- 1432H (2010 – 2011)

Instructor: Dr. Osama Mohamed Kaoud Kassem

Contributor: Mr.

Room: AB64 Office Telephone: 4676351

Office Hours: All Working days from 11 to 12 a.m

| 1 Topics to be Covered  |              |               |
|---|--------------|---------------|
| Topic   | No. of Weeks | Contact hours |
| Extrusive and intrusive igneous rocks   | 2            | 4             |
| classification and field relations of igneous rocks                             | 2            | 4             |
| weathering  | 1            | 2             |
| clastic sedimentary rocks   | 2            | 4             |
| carbonates and evaporites   | 2            | 4             |
| metamorphism and metamorphic rocks  | 2            | 4             |
| metamorphic zones and facies  | 2            | 4             |
| a brief summary on the Arabian Shield and the sedimentary cover in Saudi Arabia | 2            | 4             |

| <b>Schedule of Assessment Tasks for Students During the Semester</b> |  |                                 |                                |
|--|--|---------------------------------|--------------------------------|
| Assessment   | Assessment task (eg. essay, test, group project, examination etc.) | Week due                        | Proportion of Final Assessment |
| 1  | <b>1<sup>st</sup> exam</b>   | After the 6 <sup>th</sup> week  | 10%                            |
| 2  | <b>12 lab reports</b>  | Weekly                          | 6%                             |
| 3  | <b>Mid-term exam</b>   | After the 10 <sup>th</sup> week | 10%                            |
| 4  | <b>1<sup>st</sup> lab exam</b>                                     | After the 6 <sup>th</sup> week  | 12%                            |
| 5  | <b>2<sup>nd</sup> lab exam</b>                                     | Last week                       | 12%                            |
| 6  | <b>Final exam</b>  | As per university schedule      | 50%                            |

### **Text Books- References:**

- Raymond, L. A., 2002, Petrology: The Study of Igneous, Sedimentary, & Metamorphic Rocks, McGraw Hill, 742 p.
- Blatt, H. & Tracy, R.J., 2005, Petrology: Igneous, sedimentary, and metamorphic, 2nd edition. W.H. Freeman & Co, 530 p.
- Winter, J.D., 2002, An Introduction to Igneous and Metamorphic Petrology, Prentice Hall, 697 p.

N.B.:

- ♣ *1<sup>st</sup> semester course starting date on Sat. 16/10/1431 corresponding to 25/9/2010.*
- ♣ *- Al Adha vacation starts on Wed. 4/12/1431 – 10/11/2010.*
- ♣ *- Commencing the semester study session by Mon. 16/12/1432 - 22/11/2010.*
- ♣ *- 1st semester exams will start on 18/2/1432 – 22/1/2011.*
- ♣ *- Med year vacation will start by Wed. on 29/2/1432 -2/2/2011.*
- ♣ *- Commencing date of the Second semester session will be on Sat. 9/3/1432 -*