Math 208- Mathematics for Pharmacy Students

Course Name: Mathematics for pharmacy
Credits 2 hrs

Course Description: (*Note: General description in the form to be used for the Bulletin or Handbook should be attached*) **.**

Topics	Contact hours
1. Functions: Definition – Domain & Range of function Elementary functions, Examples.	**(2 h)**
2. Limit & Continuity: Definition, Non-existence of limits Working Rules of limit, Evaluation of limits of simple functions, A brief about continuity.	**(4 h)**
3. Differentiation: Definition of a derivative, working rules, Derivatives of special functions, chain rule, second order derivatives. Applications of derivative: Rate of change, Tangent to a curve, Maxima & Minima and Examples.	**(8 h)**
4. Integration: Definition of integral, Integration of special functions, Methods of Integration: Integration by substitution, Integration by parts, Integration by using partial fractions. Applications of derivative: Area, Volume, Arc Length, … .	**(10 h)**
5. **Review**	**(2 h)**
Total	**26**

Textbook:

1. **Calculus – Cliffs Quick Review TM - (**Anton/Bivens/Davis Version), By: Bernard V. Zandy, MA and Jonathan J. White, MS, Wiley Publishing, Inc., 2003.

References:

1. **Thomas' Calculus, Single Variable, 12th Edition**, George B. Thomas, Maurice D. Weir, Joel Hass, Addison Wesley, 2010
2. **Calculus Early Transcendentals, 6th Edition**, James Stewart, Thomson Brooks/Cole, 2008
3. **Practice Makes Perfect Calculus,** William D. Clark, Ph.D., and Sandra Luna McCune, Ph.D., The McGraw-Hill Companies, Inc., 2010