MAD 3305 - GRAPH THEORY                                            FLORIDA INT'L UNIV.   
HOMEWORK SHEET   
  
PRE-REQUISITE: Discrete Math (MAD 2104 or MAA 3200) & COP 2210 – C grades or better.   
A student needs a good working knowledge of proofs  to succeed in this course.

OFFICIAL TEXTBOOK:    Graph Theory by Ronald Gould (Dover 2012 edition)   
The textbook is also available on line at  [http://www.mathcs.emory.edu/~rg/](http://www.mathcs.emory.edu/%7Erg/)  & at my homepage.

This is a list of the problems for the course.  As the semester proceeds we may need to add a few more problems or to delete a few problems.  During classes a few more problem that are closely related to the material discussed will also be assigned.   It is important that you do all the assigned problems if you want to successfully complete the course.

Ch.1   Nos     1, 5, 6, 7 (except the part about G1[G2]), 9, 10, 12, 13, 14,

                                  16, 17, 18, 19, 20, 23, 24, 25, 27, 28, 29.

Ch.2    Nos      1, 8, 9, 11, 16, 20, 21, 22, 24, 25, 29, 30, 31, 32.

Ch.3    Nos      1, 2, 3, 5, 6, 8, 9, 15, 16, 24.

Ch.4    Nos      1, 5, 9.

Ch.5    Nos      1, 2, 4, 10, 11, 15, 16, 17, 18, 19, 41.

Ch.6    Nos      1, 2, 5, 7, 8, 9, 10, 11, 12, 14, 16.

Ch.8    Nos      4, 5, 10, 27 and

Nos  1, 2, 3, 4, 5  from the supplementary problems.

Ch.7    Nos      6, 7, 8  from the supplementary problems.

Prof. Ram's Homepage: <http://faculty.fiu.edu/~ramsamuj/>

Solutions to the textbook's HW Problems & the Supplementary HW problems (37 pages)

[Ch. 1 & 2 (p. 1-13)](http://www2.fiu.edu/~ramsamuj/graphtheory/Graph_Sol_Ch1-2.pdf)        [Ch. 3 & 4 (p. 14-21)](http://www2.fiu.edu/~ramsamuj/graphtheory/Graph_Sol_Ch3-4.pdf)      [Ch. 5, 6 & 8 (p. 22-37)](http://www2.fiu.edu/~ramsamuj/graphtheory/Graph_Sol_Ch5-6&8.pdf)

Supplementary Problems & their Solutions (4 pages).

[Actual Homework Questions from the text (14 pages)](http://faculty.fiu.edu/~ramsamuj/graphtheory/Graph_HW_Quest.pdf)