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MATH 153.01: Calculus II

D. George McRae

University of Montana, Missoula

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The University of
Montana

Department of Mathematical Sciences

Missoula, MT 59812-1032
(406) 243-5311

Effective Term(s):

Fall/Spr/Sum //year 2000
Instructor/Coordinator: McRae

SYLLABUS

COURSE/NUMBER/NAME/CREDITS/PREREQUISITES/CATALOG DESCRIPTION

CRN: 70751 **Math 153 Calculus II** 4 cr. §1 Calculus II

Prereq., Math 152. Techniques of integration. Area computations. Improper integrals. Infinite series and various convergence tests. Power series. Taylor's Formula. Polar coordinates. Parametric curves.

TEXT/AUTHOR/TITLE/PUBLISHER/YEAR/ISBN

[Required]:

Howard Anton: *Calculus: A New Horizon* Vol. II Sixth Edn., John Wiley & Sons, Inc. (1999) ISBN 0-471-24348-5

[Optional]:

??? & Albert Herr: *Student Resource Manual*, John Wiley & Sons, Inc. (1999) ISBN 0-471-24608-6

??? & Albert Herr: *Student MAPLE ?*, John Wiley & Sons, Inc. (1999) ISBN ??0-471-24608-6

Daryl Hardy & Carol Walker, *Doing Calculus with Scientific Notebook*, Brooks/Cole (1997) 0-534-34546-8

Scientific Notebook, (Software on CD) TCI Software Research (now MacKichan Software, Inc.) 0-534-34864-5

SYLLABUS/Chapt/sect #'s & Topics & Pages & Approx time/sect + test/slack time

[380pp/14wks = 27pp/wk = 9pp/lecture = 8secs/chap × 6chap/14wks = 3.5secs/wk]

Strang: *Calculus*

Review: (Ch 1-6 &) Ch 7 Integration §7.1-7.9 pp 377-460 - 4 weeks

Ch 8 Applications of Definite Integrals ... §8.1- 8.8 pp 461-512 - 3 weeks

Ch 9 Principles of Integral Evaluation §9.1-9.8 pp 513-578 - 3 weeks

Ch 10 Mat §8.1-8.6 pp 311-347 - 1 week

Ch 11 Polar Coordinates & Complex Numbers §9.1-9.4 pp 348-367 - 1 week

Ch 12 Infinite Series §10.1-10.5 pp 368-397 - 2 weeks— TOTAL 14 weeks