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**DEPARTMENT: MEDICINE AND SURGERY** 

MATRIC NUMBER: 19/MHS01/166

**COURSE: MAT 104** 

Sein x ( 1005 703113x dx = Scostoc sina oc sina doc 310°x+c03°x=1 integral reduction -Sco3 x (1-co32x) 311x dx Isin' = - cosxsin-1x+n-Usin-2x 4= cos x du = - sin x dx where n= 6 Jsin = - cosx 910 = 5 Jsin = 5 6 = - cos x + cos x + C 3 x - 3 10 2 x 8 16 5 (-109 x 910 3 x = 3 x - 3 810 2 x) I cosse sin3 x dx · scosx sin2x sinx dx y - ScosxCI-cos2x) sinx dx U= COS 26 due -sinx dx - Su(=1-u2)du Sint Isin'x =, 1810 x 2 -3105x cosx -5 (-3103x cosx .3(2-15102x)) -cos2x+cos4x+6 Scosoc ain.3 x dx U= 31175 du = cos > c d > c Su<sup>3</sup> du 4+ C = SIA x + C