

**Welding Engineering  
2008-2009**

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Phone: \_\_\_\_\_

New to OSU: \_\_\_\_\_ email: \_\_\_\_\_@osu.edu

YEAR	AUTUMN	WINTER	SPRING
1	Math 151 (Calc & Analyc Geom) .....5____ Chem 121(Gen Chem).....5____ Engr 100.13(Engr Survey) .....1____ Engr 181 (Intro to Engr I).....3____	Math 152 (Calc & Analyc Geom) .... 5____ Physics 131 (Partcls & Motion) ..... 5____ Engr 183 (Intro to Engr II) ..... 3____ Chem 125 (Chem for Engr) ..... 4____	Math 153 (Calc & Analyc Geom).....5____ Physics 132 (Electrcy & Magntsm)....5____ En Graph 167(Prob Slv Prog Engr)....4____ English 110.XX (1 <sup>st</sup> Yr English Comp).5____
2	Math 254 (Calc & Analyc Geom) .....5____ Physics 133 (Elctrdynmc & Quant) ..5____ WE 300 (Survey of WE).....3____ WE 350 (Intro Weld Lab).....1____ GEC.....5____	Math 255 (Diff Equat Application).... 5____ EE 300 (Electrical Circuits)..... 3____ EE 309 (Electrical Circuits Lab)..... 1____ ME 410 (Statics) ..... 4____ WE 351 (Intro Weld Lab II) ..... 1____ GEC.....5____	ME 420 (Intro Strngth Mtls).....4____ ISE 311 (Manufacturing Engr).....3____ MSE 205 (Intro to MSE).....3____ GEC.....5____ GEC.....5____
3	<b>WE 500</b> (Physical Prin in WE).....3____ <b>WE 550</b> (Physical Prin in WE Lab I) ..1____ <b>WE 620</b> (Engr Anlys Dsgn & Simulat) 4____ <b>MSE 401</b> (Matls Thrmodynms) .....4____	<b>WE 600</b> (Physical Prin in WE II)..... 3____ <b>WE 621</b> (WE Design)..... 4____ <b>MSE 525</b> (Phase Diagrams) ..... 3____ <b>MSE 581.04</b> (MS Lab) .....2____	<b>WE 601</b> (Weld Process & Apps).....3____ <b>WE 610</b> (Intro to Weld Metallurgy).....3____ <b>WE 631</b> (Nondestructive Eval)..... 4____ <b>WE 651</b> (Weld Proc Apps – Lab).....1____ <b>MSE 543</b> (Struct Transform).....3____
4	<b>WE 489</b> (Industrial Experience) .....1____ <b>WE 611</b> (Weld Metallurgy I) .....3____ <b>WE 661</b> (Weld Metallurgy I Lab) .....1____ <b>WE 690</b> (Capstone Weld Dsgn I) .....1____ <b>ISE 406</b> (Indstrial Quality Control)....4____ GEC.....5____ Technical Electives	<b>WE 612</b> (Weld Metallurgy II) ..... 3____ <b>WE 691</b> (Capstone Weld Dsgn II) .... 2____ <b>WE 662</b> (Anys Non-Ferrous Hi All Weld) ..1____ ISE 504 (Eng Econ Anly).....3____ GEC.....5____ Technical Electives	<b>WE 692</b> (Capstone Weld Dsgn III).....1____ GEC.....5____ GEC.....5____ Technical Electives

**Courses Printed in BOLD are taught only one quarter per year.**

Please check On-line Course Offerings for availability of other courses.

GENERAL EDUCATION (35 hrs)

English & Communication Skills (10)

English 110.xx (5) \_\_\_\_\_  
2<sup>nd</sup> Writing Course (5) \_\_\_\_\_

Students must take 25 hours across Social Sciences, Historical Study, and Arts & Humanities with a minimum of 5 hours and maximum of 10 hours per category.

Historical Study (5-10)

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Arts & Humanities (5-10)

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Social Sciences (5-10)

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Ethics (5)

(May overlap with another GEC Category)

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Social Diversity

(May overlap with another GEC Category)

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TECHNICAL ELECTIVES (17 hrs)

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ADMISSION CONDITION

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Sub-total Core .....140  
General Education .....35  
Technical Electives .....17

TOTAL HOURS .....192

Acceptance into the Welding Engineering major is limited to 66 students per year and will depend on the cumulative point-hour ratio (CPHR) and the secondary point-hour ratio (SPHR) upon completion of the following pre-major courses: *Math 151, 152, 153; Physics 131, 132; English 110.xx; Engineering 181, 183; En Graph 167; Chemistry 121 & 125* (or approved substitutes). A minimum SPHR of 2.0 is required. Formal application is required by April 10 of the year preceding taking WE 500 & 550. See the departmental office (BE 210) for details.