

## Engineering College Wide Requirements

**Campus: UMICH**  
**Career: UENG**  
**Program: 00007**  
**Plan:**

**RG = Requirement Group**  
**RQ = Requirement**  
**LN = Line**

<b>Requirement Group/ Requirement</b> <b>Effective Fall 2012</b>	00689 MDDP Engin & LSA	00690 MDDP Engin & Music
Common	<b>RG</b> 10138 <b>RQ</b> 3988, 4633, 3989, 6667, 3990, 4788, 4635, 4789, 3991, 3995, 3998, 4634, 4682, 4641, 4685	<b>RG</b> 10164 <b>RQ</b> 3988, 4633, 3989, 6667, 3990, 4788, 4635, 4789, 3991, 3995, 3998, 4634, 4682, 4641, 4685
Intellectual Breadth	<b>RG</b> 10144 <b>RQ</b> 4586, 5863, 6387	<b>RG</b> 10165 <b>RQ</b> 4586, 5863, 6387
Humanities	<b>RG</b> 10141 <b>RQ</b> 4582	<b>RG</b> 10166 <b>RQ</b> 4582
Upper Division Humanities/Social Sciences	<b>RG</b> 10142 <b>RQ</b> 5678	<b>RG</b> 10167 <b>RQ</b> 5678
Humanities and Social Sciences Total Units	<b>RG</b> 10143 <b>RQ</b> 4586, 5863, 4434	<b>RG</b> 10168 <b>RQ</b> 4586, 5863, 4434
Residency Requirement	<b>RG</b> 10139 <b>RQ</b> 4000	<b>RG</b> 10169 <b>RQ</b> 4000
Units and GPA Requirements	<b>RG</b> 10140 <b>RQ</b> 3992, 4631, 5288	<b>RG</b> 10170 <b>RQ</b> 3992, 4631, 5288
<b>Requirement Group/ Requirement</b> <b>Effective Fall 2005</b>	00689 MDDP Engin & LSA	00690 MDDP Engin & Music
Common	<b>RG</b> 10138 <b>RQ</b> 3988, 4633, 3989, 3990, 4788, 4635, 4789, 3991, 3995, 3998, 4634, 4682, 4641, 4685	<b>RG</b> 10164 <b>RQ</b> 3988, 4633, 3989, 3990, 4788, 4635, 4789, 3991, 3995, 3998, 4634, 4682, 4641, 4685
Intellectual Breadth	<b>RG</b> 10144 <b>RQ</b> 4586, 5863, 6387	<b>RG</b> 10165 <b>RQ</b> 4586, 5863, 6387
Humanities	<b>RG</b> 10141 <b>RQ</b> 4582	<b>RG</b> 10166 <b>RQ</b> 4582
Upper Division Humanities/Social Sciences	<b>RG</b> 10142 <b>RQ</b> 5678	<b>RG</b> 10167 <b>RQ</b> 5678
Humanities and Social Sciences Total Units	<b>RG</b> 10143 <b>RQ</b> 4586, 5863, 4434	<b>RG</b> 10168 <b>RQ</b> 4586, 5863, 4434
Residency Requirement	<b>RG</b> 10139 <b>RQ</b> 4000	<b>RG</b> 10169 <b>RQ</b> 4000
Units and GPA Requirements	<b>RG</b> 10140 <b>RQ</b> 3992, 4631, 5288	<b>RG</b> 10170 <b>RQ</b> 3992, 4631, 5288

### REQUIREMENT GROUPS AT THE PROGRAM:

**RG 4056**      **COMMON REQUIREMENTS**  
**Effective FA12/1910 (09/04/2012)**

**RQ 3988**      **MATH 115, 116, 215, 216**  
**Effective FA05/1560 (09/06/2005)**

(Aerospace, Biomedical, Chemical, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, Mechanical, Materials Science & Engin, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010      Math 115 is required  
LN 0020      Math 115 transfer (make no exceptions here)  
LN 0030      Math 116 is required  
LN 0040      Math 116 transfer (make no exceptions here)

## Engineering College Wide Requirements

LN 0050	Math 215 is required
LN 0060	Math 215 transfer (make no exceptions here)
LN 0070	Math 216 is required
LN 0080	Math 216 transfer (make no exceptions here)
LN 0090	Less than Minimum Grade (make no exceptions here)
LN 0100	Excess MATH (make no exceptions here)

### **RQ 4633 MATH 115, 116, 215, 216**

Effective FA12/1910 (09/04/2012)

(Electrical Engineering, Computer Engineering)

LN 0010	Math 115 is required
LN 0020	Math 115 transfer (make no exceptions here)
LN 0030	Math 116 is required
LN 0040	Math 116 transfer (make no exceptions here)
LN 0050	Math 215 is required
LN 0060	Math 215 transfer (make no exceptions here)
LN 0070	Math 216 is required
LN 0080	Math 216 transfer (make no exceptions here)
LN 0090	Less than Minimum Grade (make no exceptions here)
LN 0100	Excess MATH (make no exceptions here)

### **RQ 3989 MATH 115, 116, 214, 215**

Effective FA05/1560 (09/06/2005)

(IOE)

LN 0010	Math 115 is required
LN 0020	Math 115 transfer (make no exceptions here)
LN 0030	Math 116 is required
LN 0040	Math 116 transfer (make no exceptions here)
LN 0050	Math 214 is required
LN 0060	Math 214 is transfer (make no exceptions here)
LN 0070	Math 215 is required
LN 0080	Math 215 is transfer (make no exceptions here)
LN 0090	Less than Minimum Grade (make no exceptions here)
LN 0100	Excess MATH (make no exceptions here)

### **RQ 6667 MATH 115, 116, 214, 215/216**

Effective FA12/1910 (09/04/2012)

(Computer Science)

LN 0010	Math 115 is required
LN 0020	Math 115 transfer (make no exceptions here)
LN 0030	Math 116 is required
LN 0040	Math 116 transfer (make no exceptions here)
LN 0050	Math 214 is required
LN 0060	Math 214 is transfer (make no exceptions here)
LN 0070	Math 215 or 216 is required
LN 0080	Math 215 or 216 transfer (make no exceptions here)
LN 0090	Less than Minimum Grade (make no exceptions here)
LN 0100	Excess MATH (make no exceptions here)

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### **RQ 3990 ENGR 100 and (101 or 151) (IN Student Group EFYS: Engr First Year Student)**

Effective FA05/1560 (09/06/2005)

(Aerospace, Biomedical, Chemical, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, IOE, Mechanical, Materials Science & Engin, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010	ENGR 100 is required
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## Engineering College Wide Requirements

LN 0020	ENGR 100 transfer (make no exceptions here)
LN 0030	ENGR 101, 151 or alternate is required
LN 0040	ENGR 101, 151 transfer (make no exceptions here)
LN 0050	Less than Minimum Grade (make no exceptions here)
LN 0060	Excess ENGR (make no exceptions here)

### **RQ 4788 (ENGLISH 124 or 125) and (ENGR 101 or 151) (NOT IN Student Group EFYS: Engr First Year Student)**

Effective FA05/1560 (09/06/2005)

(Aerospace, Biomedical, Chemical, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, IOE, Mechanical, Materials Science & Engin, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010	ENGLISH 124 or 125 is required
LN 0020	ENGLISH 124 or 125 transfer (make no exceptions here)
LN 0030	ENGR 101, 151 or alternate is required
LN 0040	ENGR 101, 151 transfer (make no exceptions here)
LN 0050	Less than Minimum Grade (make no exceptions here)
LN 0060	Excess ENGR (make no exceptions here)

### **RQ 4635 ENGR 100 and 101 (IN Student Group EFYS: Engr First Year Student)**

Effective FA05/1560 (09/06/2005)

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0010	ENGR 100 is required
LN 0020	ENGR 100 transfer (make no exceptions here)
LN 0030	ENGR 101, 151 or alternate is required
LN 0040	ENGR 101, 151 transfer (make no exceptions here)
LN 0050	Less than Minimum Grade (make no exceptions here)
LN 0060	Excess ENGR (make no exceptions here)

### **RQ 4789 (ENGLISH 124 or 125) and (ENGR 101 or 151) (NOT IN Student Group EFYS: Engr First Year Student)**

Effective FA05/1560 (09/06/2005)

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0010	ENGLISH 124 or 125 is required
LN 0020	ENGLISH 124 or 125 transfer (make no exceptions here)
LN 0030	ENGR 101, 151 or alternate is required
LN 0040	ENGR 101, 151 transfer (make no exceptions here)
LN 0050	Less than Minimum Grade (make no exceptions here)
LN 0060	Excess ENGR (make no exceptions here)

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### **RQ 3991 [CHEM 125, 126, and 130] or [CHEM 210 and 211]**

Effective FA05/1560 (09/06/2005)

(Aerospace, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, IOE, Mechanical, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010	CHEM 125, 126, 130 are required (UM only) OR
LN 0012	[CHEM 125 and 126 UM only AND
LN 0015	CHEM 130 external transfer only] OR
LN 0020	[CHEM 125 or 126 are required (external transfer only) AND
LN 0030	CHEM 130 (UM only)] OR
LN 0040	CHEM 210 and 211 (UM only) are required OR
LN 0050	[CHEM 130 (UM only) is required AND
LN 0055	CHEM 211 (UM only) is required] OR
LN 0060	[CHEM 210 (external transfer only with a REP) AND
LN 0070	CHEM 211 (UM only)]

## Engineering College Wide Requirements

### **RQ 3995      CHEM 130**

Effective FA05/1560 (09/06/2005)

(Biomedical, Chemical)

LN 0010      CHEM 130 is required

LN 0020      CHEM 130 transfer (make no exceptions here)

### **RQ 3998      CHEM 125, 126, 130 or CHEM 130, 211 or CHEM 210, 211**

Effective FA11/1860 (09/06/2011)

(Materials Science & Engin)

LN 0010      CHEM 125, 126, 130 are required

LN 0020      [CHEM 125 or 126 are required (external transfer courses only) AND

LN 0030      CHEM 130]

LN 0040      CHEM 130 and 211 are required

Effective FA05/1560 (09/06/2005)

(Materials Science & Engin)

LN 0010      CHEM 125, 126, 130 are required

LN 0020      [CHEM 125 or 126 are required (external transfer courses only) AND

LN 0030      CHEM 130]

LN 0040      CHEM 130 and 211 are required

LN 0050      CHEM 210 and 211 are required

### **RQ 4634      [CHEM 125, 126, and 130] or [CHEM 210 and 211]**

Effective FA05/1560 (09/06/2005)

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0010      CHEM 125, 126, 130 are required

LN 0020      [CHEM 125 or 126 are required (external transfer courses only) AND

LN 0025      CHEM 130]

LN 0030      CHEM 210 and 211 are required

LN 0040      CHEM 130 and 211 are required

LN 0050      [CHEM 210 (external transfer course with a REP) AND

LN 0060      CHEM 211]

### **RQ 4682      Courses not used to satisfy CHEM RQ (make no exceptions here)**

Effective FA05/1560 (09/06/2005)

(Biomedical, Chemical)

LN 0010      Less than Minimum Grade

(Aerospace, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, IOE, Mechanical, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0020      Less than Minimum Grade

LN 0030      Excess [CHEM 125, 126, and 130] or [CHEM 210 and 211]

(Materials Science & Engineering)

LN 0040      Less than Minimum Grade

LN 0050      Excess [CHEM 125, 126, and 130] or [CHEM 125 and 130] or [CHEM 130 and 211] or [CHEM 210, 211]

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0060      Less than Minimum Grade

LN 0070      Excess [CHEM 125, 126, and 130] or [CHEM 210 and 211] in EECS

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### **RQ 4641      PHYSICS 140, 141, 240, 241**

Effective FA05/1560 (09/06/2005)

(Aerospace, Biomedical, Chemical, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering

## Engineering College Wide Requirements

Physics, IOE, Mechanical, Materials Science & Engin, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010	Physics 140
LN 0020	Physics 140 transfer (make no exceptions here)
LN 0030	Physics 141
LN 0040	Physics 141 transfer (make no exceptions here)
LN 0050	Physics 240
LN 0060	Physics 240 transfer (make no exceptions here)
LN 0070	Physics 241
LN 0080	Physics 241 transfer (make no exceptions here)
LN 0090	Less than Minimum Grade (make no exceptions here)

### RQ 4685      PHYSICS 140, 141, 240, 241

Effective FA05/1560 (09/06/2005)

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0010	Physics 140
LN 0020	Physics 140 transfer (make no exceptions here)
LN 0030	Physics 141
LN 0040	Physics 141 transfer (make no exceptions here)
LN 0050	Physics 240
LN 0060	Physics 240 transfer (make no exceptions here)
LN 0070	Physics 241
LN 0080	Physics 241 transfer (make no exceptions here)
LN 0090	Less than Minimum Grade (make no exceptions here)

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Effective FA05/1560 (09/06/2005)

### RQ 3988      MATH 115, 116, 215, 216

Effective FA05/1560 (09/06/2005)

(Aerospace, Biomedical, Chemical, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, Mechanical, Materials Science & Engin, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010	Math 115 is required
LN 0020	Math 115 transfer (make no exceptions here)
LN 0030	Math 116 is required
LN 0040	Math 116 transfer (make no exceptions here)
LN 0050	Math 215 is required
LN 0060	Math 215 transfer (make no exceptions here))
LN 0070	Math 216 is required
LN 0080	Math 216 transfer (make no exceptions here)
LN 0090	Less than Minimum Grade (make no exceptions here)
LN 0100	Excess MATH (make no exceptions here)

### RQ 4633      MATH 115, 116, 215, 216

Effective FA05/1560 (09/06/2005)

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0010	Math 115 is required
LN 0020	Math 115 transfer (make no exceptions here)
LN 0030	Math 116 is required
LN 0040	Math 116 transfer (make no exceptions here)
LN 0050	Math 215 is required
LN 0060	Math 215 transfer (make no exceptions here)
LN 0070	Math 216 is required
LN 0080	Math 216 transfer (make no exceptions here)
LN 0090	Less than Minimum Grade (make no exceptions here)
LN 0100	Excess MATH (make no exceptions here)

## Engineering College Wide Requirements

### **RQ 3989 MATH 115, 116, 214, 215**

Effective FA05/1560 (09/06/2005)

(IOE)

LN 0010	Math 115 is required
LN 0020	Math 115 transfer (make no exceptions here)
LN 0030	Math 116 is required
LN 0040	Math 116 transfer (make no exceptions here)
LN 0050	Math 214 is required
LN 0060	Math 214 is transfer (make no exceptions here)
LN 0070	Math 215 is required
LN 0080	Math 215 is transfer (make no exceptions here)
LN 0090	Less than Minimum Grade (make no exceptions here)
LN 0100	Excess MATH (make no exceptions here)

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### **RQ 3990 ENGR 100 and (101 or 151) (IN Student Group EFYS: Engr First Year Student)**

Effective FA05/1560 (09/06/2005)

(Aerospace, Biomedical, Chemical, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, IOE, Mechanical, Materials Science & Engin, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010	ENGR 100 is required
LN 0020	ENGR 100 transfer (make no exceptions here)
LN 0030	ENGR 101, 151 or alternate is required
LN 0040	ENGR 101, 151 transfer (make no exceptions here)
LN 0050	Less than Minimum Grade (make no exceptions here)
LN 0060	Excess ENGR (make no exceptions here)

### **RQ 4788 (ENGLISH 124 or 125) and (ENGR 101 or 151) (NOT IN Student Group EFYS: Engr First Year Student)**

Effective FA05/1560 (09/06/2005)

(Aerospace, Biomedical, Chemical, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, IOE, Mechanical, Materials Science & Engin, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010	ENGLISH 124 or 125 is required
LN 0020	ENGLISH 124 or 125 transfer (make no exceptions here)
LN 0030	ENGR 101, 151 or alternate is required
LN 0040	ENGR 101, 151 transfer (make no exceptions here)
LN 0050	Less than Minimum Grade (make no exceptions here)
LN 0060	Excess ENGR (make no exceptions here)

### **RQ 4635 ENGR 100 and 101 (IN Student Group EFYS: Engr First Year Student)**

Effective FA05/1560 (09/06/2005)

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0010	ENGR 100 is required
LN 0020	ENGR 100 transfer (make no exceptions here)
LN 0030	ENGR 101, 151 or alternate is required
LN 0040	ENGR 101, 151 transfer (make no exceptions here)
LN 0050	Less than Minimum Grade (make no exceptions here)
LN 0060	Excess ENGR (make no exceptions here)

### **RQ 4789 (ENGLISH 124 or 125) and (ENGR 101 or 151) (NOT IN Student Group EFYS: Engr First Year Student)**

Effective FA05/1560 (09/06/2005)

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0010	ENGLISH 124 or 125 is required
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## Engineering College Wide Requirements

LN 0020	ENGLISH 124 or 125 transfer (make no exceptions here)
LN 0030	ENGR 101, 151 or alternate is required
LN 0040	ENGR 101, 151 transfer (make no exceptions here)
LN 0050	Less than Minimum Grade (make no exceptions here)
LN 0060	Excess ENGR (make no exceptions here)

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### RQ 3991 [CHEM 125, 126, and 130] or [CHEM 210 and 211]

Effective FA05/1560 (09/06/2005)

(Aerospace, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, IOE, Mechanical, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010	CHEM 125, 126, 130 are required
LN 0020	[CHEM 125 or 126 are required (external transfer courses only) AND
LN 0030	CHEM 130]
LN 0040	CHEM 210 and 211 are required
LN 0050	[CHEM 130 is required AND
LN 0055	CHEM 211 is required]
LN 0060	[CHEM 210 (external transfer course with a REP) AND
LN 0070	CHEM 211]

### RQ 3995 CHEM 130

Effective FA05/1560 (09/06/2005)

(Biomedical, Chemical)

LN 0010	CHEM 130 is required
LN 0020	CHEM 130 transfer (make no exceptions here)

### RQ 3998 CHEM 125, 126, 130 or CHEM 130, 211 or CHEM 210, 211

Effective FA11/1860 (09/06/2011)

(Materials Science & Engin)

LN 0010	CHEM 125, 126, 130 are required
LN 0020	[CHEM 125 or 126 are required (external transfer courses only) AND
LN 0030	CHEM 130]
LN 0040	CHEM 130 and 211 are required

Effective FA05/1560 (09/06/2005)

(Materials Science & Engin)

LN 0010	CHEM 125, 126, 130 are required
LN 0020	[CHEM 125 or 126 are required (external transfer courses only) AND
LN 0030	CHEM 130]
LN 0040	CHEM 130 and 211 are required
LN 0050	CHEM 210 and 211 are required

### RQ 4634 [CHEM 125, 126, and 130] or [CHEM 210 and 211]

Effective FA05/1560 (09/06/2005)

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0010	CHEM 125, 126, 130 are required
LN 0020	[CHEM 125 or 126 are required (external transfer courses only) AND
LN 0025	CHEM 130]
LN 0030	CHEM 210 and 211 are required
LN 0040	CHEM 130 and 211 are required
LN 0050	[CHEM 210 (external transfer course with a REP) AND
LN 0060	CHEM 211]

### RQ 4682 Courses not used to satisfy CHEM RQ (make no exceptions here)

Effective FA05/1560 (09/06/2005)

(Biomedical, Chemical)

LN 0010	Less than Minimum Grade
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## Engineering College Wide Requirements

(Aerospace, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, IOE, Mechanical, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0020 Less than Minimum Grade  
LN 0030 Excess [CHEM 125, 126, and 130] or [CHEM 210 and 211]

(Materials Science & Engineering)

LN 0040 Less than Minimum Grade  
LN 0050 Excess [CHEM 125, 126, and 130] or [CHEM 125 and 130] or [CHEM 130 and 211] or [CHEM 210, 211]

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0060 Less than Minimum Grade  
LN 0070 Excess [CHEM 125, 126, and 130] or [CHEM 210 and 211] in EECS

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### RQ 4641 PHYSICS 140, 141, 240, 241

Effective FA05/1560 (09/06/2005)

(Aerospace, Biomedical, Chemical, Civil, Earth Sys Sc & Eng, Engineering BS, Engineering Physics, IOE, Mechanical, Materials Science & Engin, Naval Arch & Marine Eng, NERS, Engineering 1<sup>st</sup> Year, Unclassified)

LN 0010 Physics 140  
LN 0020 Physics 140 transfer (make no exceptions here)  
LN 0030 Physics 141  
LN 0040 Physics 141 transfer (make no exceptions here)  
LN 0050 Physics 240  
LN 0060 Physics 240 transfer (make no exceptions here)  
LN 0070 Physics 241  
LN 0080 Physics 241 transfer (make no exceptions here)  
LN 0090 Less than Minimum Grade (make no exceptions here)

### RQ 4685 PHYSICS 140, 141, 240, 241

Effective FA05/1560 (09/06/2005)

(Electrical Engineering, Computer Engineering, Computer Science)

LN 0010 Physics 140  
LN 0020 Physics 140 transfer (make no exceptions here)  
LN 0030 Physics 141  
LN 0040 Physics 141 transfer (make no exceptions here)  
LN 0050 Physics 240  
LN 0060 Physics 240 transfer (make no exceptions here)  
LN 0070 Physics 241  
LN 0080 Physics 241 transfer (make no exceptions here)  
LN 0090 Less than Minimum Grade (make no exceptions here)

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### RG 9951 INTELLECTUAL BREADTH

Effective FA11/1860 (09/06/2011)

RQ 4586 ECON 101 or 102 is required. (Chemical, Civil, Environmental, Engineering BS, Materials Science)

Effective FA05/1560 (09/06/2005)

LN 0010 ECON 101 or 102 is required (Chemical, Civil, Environmental, Engineering BS)  
LN 0020 ECON 101 or 102 is required (Min Unit/Crs = 3.0) (Materials Science)

RQ 5863 ECON 101 or 102 is required.



## Engineering College Wide Requirements

Effective FA05/1560 (09/06/2005) (Mechanical)

LN 0010 ECON 101 or 102 is required

### **RQ 6387 Intellectual Breadth**

Effective FA11/1860 (09/06/2011)

LN 0010 Humanities

LN 0015 3 units in the Humanities or LACs must be at the 300 level or above

LN 0020 16 Units Required: Intellectual Breadth Total Units (Humanities (HU): Liberal Arts Courses (LACs): Professional & Creative Development Courses (PCDC) NOTE: only 4 units of PCDC may be used in the requirement) (Academic Plans NI Computer Engineering or Computer Science)

LN 0030 16 Units Required: Intellectual Breadth Total Units (Humanities (HU): Liberal Arts Courses (LACs): Professional & Creative Development Courses (PCDC) NOTE: only 4 units of PCDC may be used in the requirement) (Academic Plans EQ Computer Engineering)

LN 0040 Listing of PCDC courses (make no exceptions here)

LN 0050 PCDC limit: 4 units of Professional or Creative Development Courses (make no exceptions here)

LN 0060 Courses used to satisfy IB (make no exceptions here)

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### **RG 5941 HUMANITIES**

Effective 09/05/2011 Inactive

Effective FA05/1560 (09/06/2005)

#### **RQ 4582 Six units of Humanities**

Effective FA02/1410 (09/03/2002)

LN 0010 Humanities

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### **RG 5939 UPPER DIVISION HUMANITIES/SOCIAL SCIENCE. At least one 300-level or above humanities or social science course (or courses) totaling at least three units.**

Effective 09/05/2011 Inactive

Effective FA06/1610 (09/05/2006)

#### **RQ 5678 300-level HU or SS course**

Effective FA06/1610 (09/05/2006)

LN 0010 Three units of 300-level or above Humanities or Social Sciences

### **RG 5939 SEQUENCE OF HUMANITIES OR SOCIAL SCIENCE COURSES. One 300 level or above course is required.**

Effective FA05/1560 (09/06/2005)

#### **RQ 4144 AAPTIS Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course

LN 0020 Non 300 level course

#### **RQ 4145 ACABS Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course

LN 0020 Non 300 level course

#### **RQ 4146 AMCULT Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course

## Engineering College Wide Requirements

LN 0020 Non 300 level course

**RQ 4646 ANCBIBL Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4219 ANTHRARC Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4147 ANTHRCUL Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4647 ARABIC Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4089 ARCH Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4148 ARMENIAN Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4648 ARTDES Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4149 ASIAN Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4098 ASIANLAN Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4099 BCS Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4101 BUDDHST Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

## Engineering College Wide Requirements

**RQ 4150 AAS/CAAS Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4102 CCS Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4103 CHIN Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4104 CJS Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4105 CLARCH Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4106 CLCIV Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4107 CLLING Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4151 COMM Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4108 COMPLIT Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4109 CZECH Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4110 DANCE Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

## Engineering College Wide Requirements

**RQ 4111 DUTCH Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4221 ECON Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4112 ENGLISH Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4113 ENVIRON Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4115 FRENCH Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4153 GERMAN Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4116 GREEK Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4117 GTBOOKS Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4653 HEBREW Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4118 HISTART Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4154 HISTORY Sequence**  
Effective [FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4155 HJCS Sequence**

## Engineering College Wide Requirements

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4119 HONORS Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4156 INSTHUM Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4157 INTEFLEX Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4654 IRANIAN Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4122 ITALIAN Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4123 JAPANESE Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4158 JUDAIC Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4124 KOREAN Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4228 LACS Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4125 LATIN Sequence**

Effective FA05/1560 (09/06/2005)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4159 LHSP Sequence**

Effective FA05/1560 (09/06/2005)

## Engineering College Wide Requirements

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4160 LING Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4656 MARC Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4161 MEMS Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4229 MENAS Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4162 MODGREEK Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4657 MUSICOL Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4658 NES Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4230 NRE Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4231 NURS Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4672 PAT Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course  
LN 0020 Non 300 level course

### **RQ 4216 PHIL Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

## Engineering College Wide Requirements

LN 0020 Non 300 level course

**RQ 4127 POLISH Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4232 POLSCI Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4128 PORTUG Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4233 PSYCH Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4677 RCCORE Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4130 RCHUMS Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4668 RCDIV Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4666 RCLANG Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4234 RCSSCI Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4235 REES Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

**RQ 4129 RELIGION Sequence**

Effective [FA05/1560 \(09/06/2005\)](#)

LN 0010 300 level course

LN 0020 Non 300 level course

## Engineering College Wide Requirements

**RQ 4131 ROMLANG Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4132 ROMLING Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4133 RUSSIAN Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4114 SAC Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4135 SAS Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4136 SCAND Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4138 SEAS Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4139 SERBOCRO Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4163 SLAVIC Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4237 SOC Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4140 SPANISH Sequence**  
[Effective FA05/1560 \(09/06/2005\)](#)  
LN 0010 300 level course  
LN 0020 Non 300 level course



## Engineering College Wide Requirements

**RQ 4140 SSEA Sequence**  
Effective FA05/1560 (09/06/2005)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4662 THEORY Sequence**  
Effective FA05/1560 (09/06/2005)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4661 THTREMUS Sequence**  
Effective FA05/1560 (09/06/2005)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4660 TURKISH Sequence**  
Effective FA05/1560 (09/06/2005)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4164 UC Sequence**  
Effective FA05/1560 (09/06/2005)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4142 UKRAINE Sequence**  
Effective FA05/1560 (09/06/2005)  
LN 0010 300 level course  
LN 0020 Non 300 level course

**RQ 4165 WOMENSTD Sequence**  
Effective FA05/1560 (09/06/2005)  
LN 0010 300 level course  
LN 0020 Non 300 level course

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### **RG 5940 HUMANITIES AND SOCIAL SCIENCE TOTAL UNITS**

Effective 09/05/2011 Inactive  
Effective FA05/1560 (09/06/2005)

**RQ 4586 ECON 101 or 102 is required.**  
Effective FA05/1560 (09/06/2005 (Chemical, Civil, Engineering BS, Materials Science)  
LN 0010 ECON 101 or 102 is required

**RQ 5863 ECON 101 or 102 is required.**  
Effective FA05/1560 (09/06/2005 (Mechanical)  
LN 0010 ECON 101 or 102 is required

**RQ 4434 16 Units Required: Humanities/Social Sciences Total Units**  
Effective FA06/1610 (09/05/2006)  
LN 0010 Remaining HU/SS  
LN 0020 Courses used in Hum/SocSci

**RG 4335 RESIDENCY REQUIREMENT**  
Effective FA05/1560 (09/06/2005)

## Engineering College Wide Requirements

**RQ 4000      Residency**

Effective FA05/1560 (09/06/2005)

LN 0010      50 units from the Ann Arbor Campus

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**RG 4057      UNITS AND GPA REQUIREMENTS**

Effective FA05/1560 (09/06/2005)

**RQ 3992      ENG Total Units, and GPA requirements**

Effective FA05/1410 (09/06/2005)

LN 0010      128 units are required [Academic Plans Not IN 1930BSE, 1860BSE, 2800BSE]  
LN 0020      128 units are required [Academic Plan = 1930BSE]  
LN 0025      128 units are required [Academic Plan = 1860BSE]  
LN 0026      128 units are required [Academic Plan = 2800BSE]  
LN 0030      Cumulative GPA of 2.00 or more

**RQ 4631      Optional Pass/Fail**

Effective FA05/1410 (09/06/2005)

LN 0010      A maximum of fourteen units can be used toward degree requirements. See your departmental advisor if the total exceeds fourteen.

**RQ 5288      Engineering: First Year General Electives [Academic Plan = 2900 (Engineering: First Year)]**

Effective FA05/1410 (09/06/2005)

LN 0010      General Electives