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October 15, 2010

**MEMORANDUM**

TO: Dr. Michael D. Mullen, Associate Provost for Undergraduate Education

FROM: Rick Sweigard, Associate Dean of Engineering for Administration and Academic Affairs 

SUBJECT: Proposed Revision in the Freshman Admission Requirements for the College of Engineering

Attached is a document for a proposed revision (noted in red) in the admission requirements for new freshman entering the College of Engineering. The current admission requirements have been in effect since Fall 2007. The proposed revision was approved by the College of Engineering Faculty at a meeting on October 11, 2010 and is being submitted for appropriate University review and approval.

The only change that is being proposed is an increase in the minimum ACT Math score from the current 23 to the proposed 24. All other requirements would remain the same. The justification can be summarized in a few points:

1. Engineering enrollment has reached an all-time high,
2. If applied to this year's class, it would have resulted in a reduction of only 5.9%,
3. When the current standard went into effect, the first to second year retention rate immediately went from 50.1% to 60.8%.

A chart showing Engineering undergraduate enrollment for the past 5 years is attached including data by gender and for African American students. The proposed change would not go into effect until the beginning of the 2012-2013 academic year since we are already recruiting next year's class.

If you have any questions regarding this proposed revision, please do not hesitate to contact me at 257-1864, or e-mail me at: [rsweigard@engr.uky.edu](mailto:rsweigard@engr.uky.edu)

Attachments

# College of Engineering New Freshman Admission Requirements

## Minimum Entry Requirements

ACT math score of 24 or Higher

OR

SAT equivalent

OR

3 or above on the Calculus AB portion of the  
Advanced Placement Exam

OR

Eligible for MA 110 based on result  
of the UK Math Department Placement Exam

OR

Completion of or the equivalent of  
MA 110 – Analytic Geometry and Trigonometry  
with a grade of C or higher

OR

Completion of or the equivalent of  
MA 109 - College Algebra AND MA 112 - Trigonometry  
with a grade of C or higher

(Approved by the College of Engineering Faculty, October 11, 2010)

**UNIVERSITY OF KENTUCKY  
COLLEGE OF ENGINEERING  
UNDERGRADUATE ENROLLMENT**

	GENDER	2006		2007		2008		2009		2010		
		AFR.AM.	TOTAL	AFR.AM.	TOTAL	AFR.AM.	TOTAL	AFR.AM.	TOTAL	AFR.AM.	TOTAL	
<b>Biosystems Engineering</b>	M	2	52	2	48	2	35	1	36	3	67	
	F	1	23	1	19	1	27	1	27	0	29	
	<b>TOTAL</b>	<b>3</b>	<b>75</b>	<b>3</b>	<b>67</b>	<b>3</b>	<b>62</b>	<b>2</b>	<b>63</b>	<b>3</b>	<b>96</b>	
<b>Chemical Engineering</b>	M	4	105	2	109	4	127	7	177	7	210	
	F	4	48	4	49	7	68	6	73	4	80	
	<b>TOTAL</b>	<b>8</b>	<b>153</b>	<b>6</b>	<b>158</b>	<b>11</b>	<b>195</b>	<b>13</b>	<b>250</b>	<b>11</b>	<b>290</b>	
<b>Civil Engineering</b>	M	12	316	11	276	7	286	6	325	9	338	
	F	4	53	3	62	3	59	5	67	5	63	
	<b>TOTAL</b>	<b>16</b>	<b>369</b>	<b>14</b>	<b>338</b>	<b>10</b>	<b>345</b>	<b>11</b>	<b>392</b>	<b>14</b>	<b>401</b>	
<b>Computer Engineering</b>	M	10	65	3	82	3	85	3	113	7	129	
	F	1	3	1	3	1	5	0	6	0	15	
	<b>TOTAL</b>	<b>11</b>	<b>68</b>	<b>4</b>	<b>85</b>	<b>4</b>	<b>90</b>	<b>3</b>	<b>119</b>	<b>7</b>	<b>144</b>	
<b>Computer Science</b>	M	5	217	3	161	5	168	7	184	11	201	
	F	1	23	1	13	0	16	3	17	1	19	
	<b>TOTAL</b>	<b>6</b>	<b>240</b>	<b>4</b>	<b>174</b>	<b>5</b>	<b>184</b>	<b>10</b>	<b>201</b>	<b>12</b>	<b>220</b>	
<b>Electrical Engineering</b>	M	6	198	4	158	2	159	6	182	7	206	
	F	0	19	0	19	0	19	1	19	0	18	
	<b>TOTAL</b>	<b>6</b>	<b>217</b>	<b>4</b>	<b>177</b>	<b>2</b>	<b>178</b>	<b>7</b>	<b>201</b>	<b>7</b>	<b>224</b>	
<b>Materials Engineering</b>	M	0	30	0	18	0	28	0	33	1	36	
	F	0	15	0	7	0	10	0	7	1	8	
	<b>TOTAL</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>38</b>	<b>0</b>	<b>40</b>	<b>2</b>	<b>44</b>	
<b>Mechanical Engineering</b>	M	13	518	9	475	11	511	10	575	11	581	
	F	2	51	2	54	1	56	1	66	3	56	
	<b>TOTAL</b>	<b>15</b>	<b>569</b>	<b>11</b>	<b>529</b>	<b>12</b>	<b>567</b>	<b>11</b>	<b>641</b>	<b>14</b>	<b>637</b>	
<b>Mining Engineering</b>	M	0	88	1	101	3	109	3	135	1	182	
	F	0	7	0	3	0	7	0	12	0	23	
	<b>TOTAL</b>	<b>0</b>	<b>95</b>	<b>1</b>	<b>104</b>	<b>3</b>	<b>116</b>	<b>3</b>	<b>147</b>	<b>1</b>	<b>205</b>	
<b>Undeclared Engineering</b>	M			2	52	0	39	0	23	1	39	
	F			0	6	0	4	1	5	2	11	
	<b>TOTAL</b>			<b>2</b>	<b>58</b>	<b>0</b>	<b>43</b>	<b>1</b>	<b>28</b>	<b>3</b>	<b>50</b>	
<b>COLLEGE TOTALS</b>		M	52	1589	37	1480	37	1547	43	1783	58	1989
		F	13	242	12	235	13	271	18	299	16	322
		<b>TOTAL</b>	<b>65</b>	<b>1831</b>	<b>49</b>	<b>1715</b>	<b>50</b>	<b>1818</b>	<b>61</b>	<b>2082</b>	<b>74</b>	<b>2311</b>