B.S. in Nanoscale Engineering Advisement Worksheet

Foundational Principles (20 credits)		**Core Competencies** (27 credits)		**Nanotechnology survey** (6 credits)	
N SCI/N ENG/		N ENG 301 (3)		N SCI/N ENG 101 (3)	**NS**
T SCI/ENH 114 (3)	**NS**	N ENG 302 (3)		N SCI/N ENG 102/Z (3)	**SS WI**
N SCI/N ENG 115 (1)		N ENG 303 (3)		N SCI/N ENG 103 (3)	**SS**
N SCI/N ENG 116 (3)	**NS Fx**	N ENG 304 (3)		N SCI/N ENG 104 (3)	**SS**
N SCI/N ENG 117 (1)		N ENG 405 (4)			
N SCI/N ENG 126 (3)	**NS**	N ENG 406 (4)			
N SCI/N ENG 127 (1)		N ENG 407 (4)			
N SCI/N ENG 128 (3)		N ENG 408 (3)			
N SCI/N ENG 129 (1)					
NENG/TENH 140 (3)	**NS**				
NENG/TENH 141 (1)					

Concentrations (choose **one** of the 5 concentrations below)					
Nanoelectronics (9 credits: choose 3 courses)		*Nanoscale Engineering for Energy & Environment Applications (9 credits: choose 3 courses)*		*NanoSystems Engineering (9 credits: choose 3 courses)*	
N ENG 411 (3)		N ENG 421 (3)		N ENG 431 (4)	
N ENG 412 (3)		N ENG 422 (3)		N ENG 432 (3)	
N ENG 413 (3)		N ENG 423 (3)		N ENG 433 (3)	
N ENG 414 (3)		N ENG 424 (3)		N ENG 434 (3)	
N ENG 415 (3)				N ENG 435 (3)	

Concentrations continued				**Topical electives** (6 credits)	
Nanoscale Lithography (9 credits: choose 3 courses)		*Emerging Materials and Device Engineering (9 credits: choose 3 courses)*		N ENG/N SCI 4__	
N ENG 441 (3)		N ENG 451 (3)		N ENG/N SCI 4__	
N ENG 442 (3)		N ENG 452 (3)			
N ENG 443 (3)		N ENG 453 (3)		**Capstone Research /Design** (9 credits)	
N ENG 444 (3)		N ENG 454 (3)		N ENG 390X (3)	**IL**
		N ENG 455 (3)		N ENG 490/ 491 (3)	
		N ENG 456 (3)		N ENG 492W/493W (3)	
		N ENG 457 (3)			

Design and skills (9 credits)		**Senior seminar** (1 credit)		**Mathematics** (15 credits)	
N ENG/T ENH 201 (3)		N ENG 498 (1-6)		A MAT 112/118 (4)	**MS**
N ENG/T ENH 202 (3)		or Equivalent		A MAT 113/119 (4)	
N ENG/T ENH 203 (3)				A MAT 214/218 (4)	
				A MAT 311 (3)	

General Education Requirements:

MS *Mathematics and Statistics*(one course)
WI Writing Intensive (1 course- "S" or "C" or better)
AR Arts (one course)
HU Humanities (one course)
NS Natural Sciences (one course)
SS Social Sciences (one course)
US U.S. History (one course)
IP International perspectives (one course)
IL Information Literacy (one course)
FL Foreign Language (one course).
Fx Flex category (fulfilled by second NS course in first semester)
CH Challenges for the 21st Century (for students matriculating in Fall 2013)

Modified 3/5/13 by D. White