	· ··· · ··· _···	Contact: FIOL Kell	y Chilenden
<u>R</u>	Concentration: Education	kellyc	@latech.edu
Number	Course Name		SCH
Course CategoryNumberCore CoursesSTAT 620	Theory of Probability	3	9
STAT 621	Theory of Statistics	3	
	<u> </u>	3	
MATH 574	Numerical Solutions to PDEs	3	
Concentration Courses ¹ ENGR 601	Foundations in Engineering Education	3	9
Select two of the following courses			
PSYC 502	Cognitive Psychology	3	
PSYC 507	Learning and Development	3	
PSYC 513	Organizational Psychology	3	
PSYC 523	Leadership and Decision Making	3	
ENGR 510 and	Research Methods and Sci. Research Proposal Dev.	3	
ENGR 511			
Select seven (21 S	SCH) courses from a core MS/ENGR area of concentrations		21
ENGR 685	Written Qualifying Exam	0	
ENGR 686	Oral Comprehensive Exam	0	
ENGR 611	Dissertation Enhancement Seminar (taken three times)	1	3
ENGR 650 ⁴	Doctoral Directed Study (taken twice)	6	6
ENGR 651	Pre-Candidacy Doctoral Research	1-9	9
ENGR 751	Post-Candidacy Dissertation Research	1-9	9
			Total 66
	Number STAT 620 STAT 621 Select one of the 1 ENGR 641 MATH 574 ENGR 601 Select two of the 1 PSYC 502 PSYC 507 PSYC 503 ENGR 510 and ENGR 511 Select seven (21 \$ ENGR 685 ENGR 686 ENGR 685 ENGR 680 ENGR 6504 ENGR 651	NumberCourse NameSTAT 620Theory of ProbabilitySTAT 621Theory of StatisticsSelect one of the Ilowing two coursesENGR 641Formulation of Solutions to Engineering ProblemsMATH 574Numerical Solutions to PDEsENGR 601Foundations in Engineering EducationSelect two of the Ilowing coursesPSYC 502Cognitive PsychologyPSYC 507Learning and DevelopmentPSYC 513Organizational PsychologyPSYC 523Leadership and Decision MakingENGR 510 and ENGR 511Research Methods and Sci. Research Proposal Dev.Select seven (21 SCH) courses from a core MS/ENGR area of concentrationsENGR 685Written Qualifying ExamENGR 686Oral Comprehensive ExamENGR 6811Dissertation Enhancement Seminar (taken three times)ENGR 6504Doctoral Directed Study (taken twice)ENGR 651Pre-Candidacy Doctoral Research	NumberCourse NameSTAT 620Theory of Probability3STAT 621Theory of Statistics3Select one of the following two coursesENGR 641Formulation of Solutions to Engineering Problems3MATH 574Numerical Solutions to PDEs3ENGR 601Foundations in Engineering Education3Select two of the following courses9PSYC 502Cognitive Psychology3PSYC 507Learning and Development3PSYC 513Organizational Psychology3PSYC 523Leadership and Decision Making3ENGR 510 and ENGR 511Research Methods and Sci. Research Proposal Dev.3Select seven (21 SCH) courses from a core MS/ENGR area of concentrations0ENGR 685Written Qualifying Exam0ENGR 611Dissertation Enhancement Seminar (taken three times)1ENGR 651Pre-Candidacy Doctoral Research1-9

Ph.D. in Engineering

Contact: Prof Kelly Crittenden

¹ The concentration courses for the concentration in Engineering Education.

² All PhD students in this track must earn an MS in Engineering. The 21 SCH courses chosen should be in consultation with the student's Dissertation committee so that they will serve as courses for the MS in Engineering Plan of Study.

³ The qualifying examinations are managed by the Chair of the Advisory Committee. ENGR 685 consists of a written paper and presentation discussion of one or more research article(s) in a complementary area to the student's research. ENGR 686 involves a presentation focused on the student's proposed doctoral research. ENGR 685 and 686 should be attempted in the same quarter for this track, and may only be repeated once.
⁴ Taken under the supervision of the faculty member. Can be a preparation for the research leading to the dissertation.

⁵ Complete 9 SCH of ENGR 651 prior to ENGR 686. After successful passing ENGR 686, complete 9 SCH of ENGR 751. Registration in any quarter is for 1 to 3 semester hours or multiples thereof, up to a maximum of 9 semester hours per quarter.

*Students are expected to have published one or more peer reviewed journal publications or conference proceedings by the time they graduate. **Plan of Study Important Information:** When entering information in the plan of study, it is important to note that <u>only</u> core courses and <u>all</u> core courses need to be put in section 1.1, while all others are put in section 1.2 (i.e. special topics, seminar, and research courses).

Updated 4//2018