

**DOCTORAL LEVEL PLAN OF LICENSURE IN INSTRUCTIONAL TECHNOLOGY**  
K-12 (077)

**Ph.D. in Curriculum and Instruction**  
**Curricular Specialty:**  
**INSTRUCTIONAL TECHNOLOGY**

North Carolina State University  
Department of Curriculum and Instruction

Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

Date: \_\_\_\_\_

Graduate School Minimum of 72 Hours for the Ph.D.<sup>1</sup>

**Curriculum and Instruction Core**

**33-45 Hours**

Students are required to take courses in each of the following areas that address curricular, philosophical, social, cultural and psychological aspects of education. Courses with an asterisk are required:

Studies in curriculum theory, pedagogy, and teacher development

*ECI	700	Curriculum Theory and Development
ECI	851	Internship in Mentoring
ECI	841	Practicum in Mentoring of Teachers
ECI	503	Effective Teaching
ECI	705	Instructional Supervision of Teachers
*ECI	801	Seminar in Curriculum and Instruction

Studies in philosophical, social, and cultural issues

ELP	724	Contemporary Educational Thought
ECI	500	Theory and Practice in Teaching Diverse Populations
ELP	515	Education and Social Diversity
PSY	714	Social Psychology: Small Groups Research

*(Either ECI 500 or ELP 515 will be required, if students have not taken an equivalent course in their master's program. Students may take other advanced courses in anthropology, sociology and public affairs, if approved by their advisory committees.)*

Studies in the nature of the learner

ECD	737	Cognitive-Developmental Theory, Research, and Practice
PSY	596	Advanced Educational Psychology
PSY	784	Advanced Developmental Psychology
PSY	582	Psychology of Adolescent Development
PSY	826	Advanced Problems in Cognition
PSY	786	Cognitive Development
PSY	787	Social Development

Studies in instructional technology

The curricular specialty in Instructional Technology typically is comprised of course work from Curriculum and Instruction and other departments with technology related courses such as Math, Science and Technology Education, Adult and Community College Education, Psychology, and Public Administration. Other areas may be included based on the scholarship and research interests of the student. Suggested courses for the instructional technology specialty are:

ECI	511 / 711	Computer Applications and Curriculum Integration in K12 Instruction
ECI	514 / 714	Multimedia Design & Applications in K-12 Instruction
ECI	515 / 715	Internet Applications & Web Page Design in K-12 Instruction
ECI	516/716	Design & Evaluation of Instructional Materials
ECI	517/717	Advanced Multimedia Design and Applications in K12 Instruction
ECI	518/718	Program and Staff Development in Instructional Technology

<sup>1</sup> Refer to the NCSU Graduate Catalog for requirements governing doctoral study at the University.

ECI	516/716	Design & Evaluation of Instructional Materials
ECI	642/842	Practicum in Instructional Technology
ECI	652/852	Internship in Instructional Technology
PA	540	Computer Applications in Public Administration
PA	541	Geographic Information Systems for Public Administration
EAC	780	Designing Instructional Systems in Training and Development
EAC	781	Advanced Instructional Design in Training and Development
ECI	709	Special Problems in C&I: Teachers as Leaders
ECI	806	Seminar on Teacher as Learner: Developmental Theory, Research and Practice
EAC	759	The Adult Learner
ECI	503	Effective Teaching;
PSY	596	Advanced Educational Psychology
PSY	582	Adolescent Development
ECI	751	Teaching and Learning Approaches for Emerging Adolescents

If a student chooses to have a formal minor, these courses must include a minimum of 9-15 hours of credit in upper division and graduate level courses in the Minor Area which is decided in conjunction with the student's minor representative from that department.

**Research**

**27-30 Hours**

Required Courses: (24 hours)

ST	507	Statistics for the Behavioral Sciences I
ST	508	Statistics for the Behavioral Sciences II
ECI	710	Research Applications in Curriculum and Instruction
ELP	736	Qualitative Research in Education and Policy Analysis
ECI	895	Doctoral Dissertation Research (12 Hours)

Additional research courses such as: (3-6 hours)

ECI	892	Research Projects in Curriculum and Instruction
ECI	526	Theory and Research on Teaching and Learning Social Studies
ECI	603	Advanced Seminar in Literacy Research
ELP	742	Applied Research Methods in Education
ELP	780	Evaluation Theory and Practice in Education
ECD	733	Cognitive-Behavioral Theory, Research and Practice
PSY	762	Quasi-Experimental Evaluation Design
PA	765	Quantitative Research in Public Administration
PA	766	Advanced Research Methodology
SOC	713	Applied Research
SOC	711	Research Methods in Sociology I
SOC	712	Advanced Survey Research Methods
ST	505	Applied Nonparametric Statistics
ST	708	Applied Least Squares
ST	730	Applied Times Series
ST	731	Applied Multivariate Statistical Analysis

**TOTAL HOURS:**

**60-75 Hours**

In order to meet the Graduate School required minimum of 72 Hours beyond the bachelor's degree for the Ph.D. some hours can be counted from the student's master's program in the Graduate Plan of Work after the above requirements have been met.

Adviser: \_\_\_\_\_ Date: \_\_\_\_\_

Dept Head: \_\_\_\_\_ Date: \_\_\_\_\_

Cert. Officer: \_\_\_\_\_ Date: \_\_\_\_\_

<sup>2</sup> Other courses may be taken, if approved by the Advisor and/or Committee.