

Institutional Effectiveness 2023-2024

Program: Secondary Education BSED

College and Department: College of Education, Department of Curriculum & Instruction

Contact: Jeremy Wendt, Chairperson

Mission:

The mission of the Department of Curriculum & Instruction is to enhance education and policy for the well-being of society through the creation, communication and application of new knowledge; preparation of scholars, researchers, educators and other professionals to meet the needs of our increasingly diverse, global, technological society; and outreach initiatives engaged with matters related to the local community, state, nation, and world.

Mission Brief: Learn from the past. Impact the present. Focus on the future.

Vision: Evidence-based, student-focused, future-oriented education for life-long learners.

Attach Curriculum Map (Educational Programs Only):

Attached Files: See Appendix 1

PO 1: Praxis

Define Outcome:

Program candidates will demonstrate content and pedagogical knowledge and skills by meeting or exceeding passing scores on the respective state licensure exam as set by the State Board of Education.

Assessment Methods:

State licensure exams (Praxis). Candidates take between one and six licensure exams in order to be recommended for licensure. The Praxis subject assessments measure candidates' content knowledge of the subjects they teach. The subject assessments measure subject-specific teaching skills and content knowledge. Validity for the assessments is evidenced through multiple means, including job analysis; item writing and reviewing; standard-setting studies; test reviews; and ongoing reviews. Reliability is addressed via the standard error of measurement, reliability of classification, and reliability of scoring. Praxis is a proprietary assessment developed, regulated, and scored by ETS, and the Tennessee State Board of Education sets candidate cut scores.

Criteria for Success (Thresholds for Assessment Methods):

Praxis: Program candidates will demonstrate content and pedagogical knowledge and skills in their clinical practice by meeting or exceeding a passing score as set by the State Board of

Education. Additionally, candidates will score at or above state and national means in their respective discipline on the Praxis exam.

Link to 'Tech Tomorrow' Strategic Plan:

2.B Research, Scholar, Intellect, and Creativity, 4.B Programs, Certificates, and Training

Results and Analysis:

With changes to the cycle of data collection for IE, the department has complete data sets for the most recent completers (2023-2024).

Student Learning Outcome 1: Program candidates will demonstrate content and pedagogical knowledge and skills by meeting or exceeding passing scores on the respective state licensure exam as set by the State Board of Education. PRAXIS content exams: All candidates must pass their respective Praxis content exam prior to entering residency I/student teaching. Praxis summary reports show EPP scores compared to State and National averages, as well as a breakdown of our candidates in each quartile. All summary reports are posted on the EPP's website. Some content areas have 5 or fewer candidates, which impacts reporting for the State Report Card. However, all areas are listed below. See tables below for SEED PRAXIS data on selected concentrations.

Table 1. Biology: Content Knowledge PRAXIS (5235)

	TTU			State		
Year	N	Pass Rate	Mean	N	Pass Rate	Mean
2020-2021	17	82.35	157.65	150	77.33	156.55
2021-2022	19	84.21	152.95	154	72.08	155.21
2022-2023	11	90.91	161.91	129	72.09	154.65
2023-2024	3	*	*	58	42	145.50

Table 2. World & U.S. History: Content Knowledge PRAXIS (5941)

Year	TTU			State		
	N	Pass Rate	Mean	N	Pass Rate	Mean
2020-2021	16	93.75	164.06	355	66.48	159.81
2021-2022	17	52.94	155.76	308	58.44	157.4
2022-2023	18	72.22	159.61	264	59.09	156.98
2023-2024	15	46.67	154	172	51.74	157

For the 2023-2024 academic year, TTU had 5 or less candidates take the Chemistry, Government/Political Science, French, German, Geography, Physics, Speech, Theater, Economics, and Earth and Space Science PRAXIS exams. Therefore, no statistical information was reported at the state level. Of the secondary program, TTU performed at a higher mean in Mathematics and English. However, in World & US History, the TTU pass rate fell below the state pass rate. In Biology, there wasn't enough data to report/compare against the state rates.

Use of Results to Improve Outcomes:

The department faculty and administration will continually evaluate the content and curriculum that builds towards successful completion of the Praxis, edTPA, and ATR. Success on these nationally norm-referenced indicators are vital to accreditation and licensure in the department for our candidates. Curricular changes across all programs have been implemented to maintain current standards in each program. For secondary education, several changes were approved by faculty: additional practicum course credit hours; additional credit hours for classroom management; ATR integrations into coursework to ensure future preparedness for the classroom.

PO 2: edTPA

Define Outcome:

Program candidates will demonstrate content and pedagogical knowledge and skills by meeting or exceeding a passing score on the respective performance-based subject-specific assessment as set by the State Board of Education.

Assessment Methods:

Performance-based subject-specific assessment. The edTPA is a performance-based assessment that assesses teaching behaviors that focus on student learning. edTPA is a proprietary, nation-

wide assessment, developed by SCALE/Stanford and administered by Pearson. It is available in 27 individual content areas as a multiple-measures system that includes two primary components: 1) teaching-related performance tasks embedded in clinical practice that focus on planning, instruction, assessment, academic language, and analysis of teaching; 2) a three to five day documented learning segment. edTPA was nationally validated in 2013 to establish validity and reliability. The edTPA is professionally scored by Pearson, and the Tennessee State Board of Education sets candidate cut scores.

Criteria for Success (Thresholds for Assessment Methods):

ATR: Program candidates will demonstrate content and pedagogical knowledge and skills in their clinical practice by scoring at or above state and national means in their respective discipline on the ATR rubric.

Link to 'Tech Tomorrow' Strategic Plan:

1.A Experiential Learning, 2.B Research, Scholar, Intellect, and Creativity, 4.B Programs, Certificates, and Training

Results and Analysis:

edTPA: edTPA is a performance-based assessment used to measure pedagogical skills and pedagogical content knowledge. It shows what candidates can do, rather than what they plan to do. It is holistic and reflective as candidates integrate learning from across the curriculum and examine teaching practices. The portfolio includes 15 rubrics across 3 tasks (planning, instruction, and assessment) to demonstrate teacher effectiveness. In 2017, the Tennessee State Board of Education voted to require edTPA of all teacher candidates seeking licensure in the state. This requirement went into effect January 1, 2019; however, Tennessee Tech progressively implemented edTPA in 2012 for all programs with strong support for both candidates and faculty. Currently, candidates complete the edTPA during the residency II/student teaching clinical experience; each rubric is scored on a 5-point scale. Additionally, TTU's total mean score has increased annually, whereas the State and National total mean scores experienced relatively little change (-.1 and -.1, respectively) between the same years. See tables below for edTPA data.

Table 1. Total mean scores for TTU, State, and National Levels edTPA

Year	TTU	State	National
2020-2021	45.5	45.2	43.1
2021-2022	46.2	45.1	42.9
2022-2023	46.6	45.1	42.8
2023-2024	47.2	45.2	42.7

Table 2. edTPA data for Secondary English-Language Arts

<i>TTU</i>			<i>State</i>			<i>National</i>		
<i>Year</i>	<i>N</i>	<i>Mean</i>	<i>Year</i>	<i>N</i>	<i>Mean</i>	<i>Year</i>	<i>N</i>	<i>Mean</i>
2020-2021	4	48	2020-2021	137	47.5	2020-2021	1821	45.7
2021-2022	12	48.8	2021-2022	218	48	2021-2022	2388	46
2022-2023	16	49.6	2022-2023	192	48.1	2022-2023	2143	45.8
2023-2024	8	48.6	2023-2024	125	46.9	2023-2024	1855	45.2

Table 3. edTPA data for History/Social Studies

<i>TTU</i>			<i>State</i>			<i>National</i>		
<i>Year</i>	<i>N</i>	<i>Mean</i>	<i>Year</i>	<i>N</i>	<i>Mean</i>	<i>Year</i>	<i>N</i>	<i>Mean</i>
2020-2021	6	45.2	2020-2021	104	46.2	2020-2021	1759	44.5
2021-2022	12	44.8	2021-2022	157	45.9	2021-2022	2286	44.7
2022-2023	8	47.9	2022-2023	125	46.1	2022-2023	1963	44.7
2023-2024	8	47.9	2023-2024	116	46.2	2023-2024	1738	45.2

Table 4. edTPA data for Mathematics

<i>TTU</i>			<i>State</i>			<i>National</i>		
<i>Year</i>	<i>N</i>	<i>Mean</i>	<i>Year</i>	<i>N</i>	<i>Mean</i>	<i>Year</i>	<i>N</i>	<i>Mean</i>
2020-2021	9	40.4	2020-2021	122	41	2020-2021	1562	39.4
2021-2022	11	38	2021-2022	125	40.8	2021-2022	1748	39.6
2022-2023	16	42.1	2022-2023	117	39.6	2022-2023	1734	39
2023-2024	2	46.5	2023-2024	60	40.2	2023-2024	1614	38.8

Table 5. edTPA data for Secondary Science

<i>TTU</i>			<i>State</i>			<i>National</i>		
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<i>Year</i>	<i>N</i>	<i>Mean</i>	<i>Year</i>	<i>N</i>	<i>Mean</i>	<i>Year</i>	<i>N</i>	<i>Mean</i>
2020-2021	13	46.5	2020-2021	119	43.6	2020-2021	1540	41.4
2021-2022	15	49.6	2021-2022	128	44.6	2021-2022	1686	42.2
2022-2023	12	46.4	2022-2023	107	44.3	2022-2023	1507	42.3
2023-2024	2	48.5	2023-2024	46	44	2023-2024	1242	42.3

For the 2023-2024 academic year, the total mean score for TTU was higher than State and National total mean scores, indicating continued success in our goals within the licensure program. Each of the secondary areas had higher mean averages than the state of TN and the national averages.

Use of Results to Improve Outcomes:

The department faculty and administration will continually evaluate the content and curriculum that builds towards successful completion of the Praxis, edTPA, and ATR. Success on these nationally norm-referenced indicators are vital to accreditation and licensure in the department for our candidates. Curricular changes across all programs have been implemented to maintain current standards in each program. For secondary education, several changes were approved by faculty: additional practicum course credit hours; additional credit hours for classroom management; ATR integrations into coursework to ensure future preparedness for the classroom.

PO 3: ATR Rubric

Define Outcome:

Program candidates will demonstrate content and pedagogical knowledge and skills in their clinical practice by scoring at or above expectations on the ATR rubric.

Assessment Methods:

Based on the needs of licensure students and data analysis, the College of Education chose a new instrument to replace the TEAM evaluation that has been in place for over a decade. The

new instrument, the Aspiring Teacher Rubric (ATR), is a national norm-referenced performance evaluation tool developed by the National Institute for Excellence in Teaching.

The NIET ATR aligns with the standards published by the Interstate Teacher Assessment and Support Consortium’s Model Core Teaching Standards and Learning Progressions for Teachers, which have been adopted by several states and are required for all programs seeking accreditation from the Council for the Accreditation of Educator Preparation (CAEP).

Criteria for Success (Thresholds for Assessment Methods):

ATR: Program candidates will demonstrate content and pedagogical knowledge and skills in their clinical practice by scoring at or above expectations on the ATR rubric.

Link to 'Tech Tomorrow' Strategic Plan:

1.A Experiential Learning,2.B Research, Scholar, Intellect, and Creativity,4.B Programs, Certificates, and Training

Results and Analysis:

The NIET ATR aligns with the standards published by the Interstate Teacher Assessment and Support Consortium’s Model Core Teaching Standards and Learning Progressions for Teachers, which have been adopted by several states and are required for all programs seeking accreditation from the Council for the

Accreditation of Educator Preparation (CAEP).

The ATR measures across twelve data points for each candidate observation in a K-12 classroom. Moving forward, the program outcomes will reflect a target of maintaining a passing score and exceeding state and national norms when they are available. The first year will provide a baseline for future data analyses.

		Average - Instructional Plan	Average - Assessment	Average - Standards and Objectives	Average - Meeting Instructional Content	Average - Activities and Materials	Average - Questioning	Average - Academic Feedback	Average - Teacher Knowledge of Students	Average - Thinking and Problem Solving	Average - Environment	Average - Engaging Students and Managing Behavior	Average - Professionalism and Ethical Behavior
Secondary Education	2023-2024	73	3.88	3.71	3.87	3.77	3.81	3.54	3.68	3.74	3.67	4.07	3.85

Use of Results to Improve Outcomes:

The ATR measures across twelve data points for each candidate observation in a K-12 classroom. Moving forward, the program outcomes will reflect a target of maintaining a passing score and exceeding state and national norms when they are available. The first year will provide a baseline for future data analyses.

The department faculty and administration will continually evaluate the content and curriculum that builds towards successful completion of the Praxis, edTPA, and ATR. Success on these nationally norm-referenced indicators are vital to accreditation and licensure in the department

for our candidates. Curricular changes across all programs have been implemented to maintain current standards in each program. For secondary education, several changes were approved by faculty: additional practicum course credit hours; additional credit hours for classroom management; ATR integrations into coursework to ensure future preparedness for the classroom.

Summative Evaluation:

Minor changes were implemented in individual specialty areas to help refine curriculum and increase pass rates/scores on Praxis, edTPA, and the new ATR. For example, in the 2023-2024 academic year, a new practicum course was designed and approved to help implement pedagogical strategies and address a gap in the number of hours candidates spend in the classroom.

As part of the department's efforts to increase the scores on the TEAM rubric, a new tool is being implemented that will better prepare candidates for the classroom and future use of the TEAM rubric. The Aspiring Teacher Rubric (ATR) is a nationally certified valid and reliable instrument that is designed to work at a more introductory level than the TEAM rubric. With Fall 2023 implementation, we expect data and results to be available for the next IE report in Fall 2024.

Assessment Plan Changes:

List of Appendices:

Appendix 1: Secondary Education BSED Curriculum Map

