School of Interdisciplinary Studies

Education (BA, BS)

UT Dallas offers both a Bachelor of Arts in Education degree (BAED) and a Bachelor of Science in Education degree (BSED) through the School of Interdisciplinary Studies. Each degree emphasizes a broader understanding and wider perspective of the field of education. Becoming a teacher takes preparation and planning. To ensure the highest professional standards, the state of Texas and The University of Texas at Dallas require students to pass a series of rigorous courses, complete extensive fieldwork and demonstrate their knowledge of content and educational expertise on state licensure exams to become fully certified as a highly qualified teacher in Texas. The Teacher Development Center (TDC) at UT Dallas offers all the preparation courses required for teacher certification, including practical classes in curriculum and instruction, educational technology, and classroom management. The TDC interfaces and engages with all academic schools at UT Dallas, as well as 22 area school districts, to assist students as they progress through the Teacher Certification Program.

All BAED and BSED students are required to select a certification focus before their junior year.

BA certification tracks include:

- Early Childhood-Grade 6
  - EC-6 Core Subjects

- Grades 4-8
  - 4-8 Core Subjects
  - 4-8 English, Language Arts and Reading (ELAR)
  - 4-8 Science
  - 4-8 Social Studies

- Grades 7-12
  - 7-12 Social Studies with a concentration in Economics
  - 7-12 Social Studies with a concentration in Geography
  - 7-12 Social Studies with a concentration in Government
  - 7-12 Social Studies with a concentration in History

BS certification tracks include:

- 4-8 Mathematics
- 4-8 Science

Bachelor of Arts in Education with EC-6 Core
Subjects

Degree Requirements (120 semester credit hours)

View an Example of Degree Requirements by Semester

Faculty

Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith

Professors of Instruction: Jillian Duquaine-Watson, Tonja Wissinger

Associate Professors of Instruction: Kathleen Byrnes, Patricia A. Leek

Assistant Professors of Instruction: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication

RHET 1302 Rhetoric

Or select any 6 semester credit hours from Communication Core courses (see advisor)

Mathematics: 3 semester credit hours

MATH 1314 College Algebra

Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

AMS 2341 American Studies for the Twenty-First Century

or AMS 2300 American Popular Culture

or HUMA 1301 Exploration of the Humanities

Or select any 3 semester credit hours from Language, Philosophy and Culture Core courses (see advisor)

Creative Arts: 3 semester credit hours

ARTS 1301 Exploration of the Arts

Or select any 3 semester credit hours Creative Arts Core courses (see advisor)
American History: 6 semester credit hours

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War

Or select any 6 semester credit hours from American History Core courses (see advisor)

Government/Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences Core courses. (see advisor)

Component Area Option: 6 semester credit hours

MATH 1316 Trigonometry
or MATH 2306 Analytic Geometry
STAT 1342 Statistical Decision Making
or PSY 2317 Statistics for Psychology

Or select any 6 semester credit hours from Component Area Option Core courses. (see advisor)

II. Major Requirements: 60 semester credit hours beyond Core Curriculum

Major Related Courses (18 semester credit hours)

AMS 4300 Oral and Written Communication for the Classroom
BIS 3320 The Nature of Intellectual Inquiry
ED 4693 Student Teaching - Elementary

3 semester credit hour lower- or upper-level ISIS course

3 semester credit hour lower- or upper-level ISIS or ISNS course

Foundation I: Behavioral and Brain Sciences (12 semester credit hours)

CLDP 2314 or PSY 2314 Lifespan Development
ED 3339 Educational Psychology for Teachers
or PSY 3339 Educational Psychology
6 semester credit hours of lower or upper-level **CGS, CLDP, NSC, PSY**, or **SPAU** courses

**Foundation II: Education (12 semester credit hours)**

*ED 3314* The American Public School  
*ED 3315* Children's Literature  
*ED 3345* Art, Music, and Physical Development Grades EC - 6  
*ED 4351* ESL for K-12 Teachers

**Teaching Techniques (18 semester credit hours)**

*BIS 4306* Strategies for Diversity in Education  
*ED 3340* Math Concepts for Teachers  
*ED 4352* Reading I: Learning to Read  
*ED 4357* Diagnostic Reading  
*ED 4363* Reading II/ELAR Methods  
*ED 4V95* Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

**III. Certification Requirements and Recommendations: 18 semester credit hours**

*ED 3342* Classroom Management Grades EC - 6  
*ED 4343* Science Methods for Grades EC - 6  
*ED 4344* Mathematics Methods for Elementary Teachers  
*ED 4345* Social Studies Methods for Grades EC - 6  
*ED 4372* Educational Technology

**Guided Electives**

*BIS 1100* Interdisciplinary Studies Freshman Seminar  
*UNIV 1010* Freshman Seminar

2 semester credit hours of lower- or upper-level courses (see advisor)

**Bachelor of Arts in Education with 4-8 Core Subjects**

*Degree Requirements* (120 semester credit hours)

*View an Example of Degree Requirements by Semester*
Faculty

Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith

Professors of Instruction: Jillian Duquaine-Watson, Tonja Wissinger

Associate Professors of Instruction: Kathleen Byrnes, Patricia A. Leek

Assistant Professors of Instruction: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric

Or select any 6 semester credit hours from Communication Core courses (see advisor)

Mathematics: 3 semester credit hours

- **MATH 1314** College Algebra

Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

- **AMS 2341** American Studies for the Twenty-First Century
  - or **AMS 2300** American Popular Culture
  - or **HUMA 1301** Exploration of the Humanities

Or select any 3 semester credit hours from Language, Philosophy and Culture Core courses (see advisor)

Creative Arts: 3 semester credit hours

- **ARTS 1301** Exploration of the Arts

Or select any 3 semester credit hours Creative Arts Core courses (see advisor)

American History: 6 semester credit hours

- **HIST 1301** U.S. History Survey to Civil War
- **HIST 1302** U.S. History Survey from Civil War

Or select any 6 semester credit hours from American History Core courses (see advisor)
Government/Political Science: 6 semester credit hours

**GOVT 2305** American National Government

**GOVT 2306** State and Local Government

Or select any 6 semester credit hours from **Government/Political Science Core** courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from **Social and Behavioral Sciences Core** courses. (see advisor)

Component Area Option: 6 semester credit hours

**MATH 1316** Trigonometry

or **MATH 2306** Analytic Geometry

**STAT 1342** Statistical Decision Making

or **PSY 2317** Statistics for Psychology

Or select any 6 semester credit hours from **Component Area Option Core** courses.(see advisor)

II. Major Requirements: 60 semester credit hours

Major Related Courses (18 semester credit hours)

**AMS 4300** Oral and Written Communication for the Classroom

**BIS 3320** The Nature of Intellectual Inquiry

**ED 4694** Student Teaching Secondary

3 semester credit hour lower- or upper-level **ISIS** course

3 semester credit hour lower- or upper-level **ISIS** or **ISNS** course

Foundation I (12 semester credit hours)

12 semester credit hours of lower or upper-level courses from selected Foundation (see advisor)

Foundation II: Education (12 semester credit hours)

**ED 3314** The American Public School

**ED 3315** Children's Literature

**ED 3340** Math Concepts for Teachers

**ED 4351** ESL for K-12 Teachers

Teaching Techniques (18 semester credit hours)
ED 3339 Educational Psychology for Teachers
or PSY 3339 Educational Psychology
ED 4352 Reading I: Learning to Read
ED 4357 Diagnostic Reading
ED 4361 Classroom Management Secondary
ED 4363 Reading II/ELAR Methods
ED 4V95 Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

III. Certification Requirements and Recommendations: 18 semester credit hours
BIS 4306 Strategies for Diversity in Education
ED 3371 Curriculum and Instruction in the Natural Sciences
ED 3382 Curriculum and Instruction in Social Studies
ED 4344 Mathematics Methods for Elementary Teachers
ED 4372 Educational Technology

Guided Electives
BIS 1100 Interdisciplinary Studies Freshman Seminar
UNIV 1010 Freshman Seminar
2 semester credit hours of lower- or upper-level courses (see advisor)

Bachelor of Arts in Education with 4-8 English, Language Arts and Reading (ELAR)
Degree Requirements (120 semester credit hours)

View an Example of Degree Requirements by Semester

Faculty
Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith
Professors of Instruction: Jillian Duquaine-Watson, Tonja Wissinger
Associate Professors of Instruction: Kathleen Byrnes, Patricia A. Leek
Assistant Professors of Instruction: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak
I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric
Or select any 6 semester credit hours from Communication Core courses (see advisor)

Mathematics: 3 semester credit hours

MATH 1314 College Algebra
Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

AMS 2341 American Studies for the Twenty-First Century
or AMS 2300 American Popular Culture
or HUMA 1301 Exploration of the Humanities
Or select any 3 semester credit hours from Language, Philosophy and Culture Core courses (see advisor)

Creative Arts: 3 semester credit hours

ARTS 1301 Exploration of the Arts
Or select any 3 semester credit hours Creative Arts Core courses (see advisor)

American History: 6 semester credit hours

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
Or select any 6 semester credit hours from American History Core courses (see advisor)

Government/Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government
Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours
Select any 3 semester credit hours from **Social and Behavioral Sciences Core** courses. (see advisor)

**Component Area Option: 6 semester credit hours**

Select any 6 semester credit hours from **Component Area Option Core** courses. (see advisor)

II. **Major Requirements: 60 semester credit hours**

**Major Related Courses (18 semester credit hours)**

- **BIS 3320** The Nature of Intellectual Inquiry
- **ED 4694** Student Teaching Secondary
- 3 semester credit hour lower- or upper-level **ISIS** course
- 3 semester credit hour lower- or upper-level **ISIS** or **ISNS** course
- 3 semester credit hour lower- or upper-level course from **AMS, GST, ISIS**, or **BIS 4V01**

**Foundation I: Arts and Humanities (12 semester credit hours)**

- **LIT 3339** Writing Literary Studies
- 3 semester credit hour upper-level **HIST** course
- 3 semester credit hour upper-level **LIT** course
- 3 semester credit hour upper-level course from **AHST, ARTS, COMM, CRWT, DANC, FILM, MUSI**, or **TH EA**

**Foundation II: Education (12 semester credit hours)**

- **ED 3314** The American Public School
- **ED 3315** Children's Literature
- **ED 3339** Educational Psychology for Teachers
  - or **PSY 3339** Educational Psychology
- **ED 4351** ESL for K-12 Teachers

**Teaching Techniques (18 semester credit hours)**

- **AMS 4300** Oral and Written Communication for the Classroom
- **ED 4352** Reading I: Learning to Read
- **ED 4363** Reading II/ELAR Methods
- **LIT 2350** Close Reading
- **LIT 3330** Linguistics
or **BIS 4306** Strategies for Diversity in Education

3 semester credit hour lower- or upper-level **LIT** course

III. Certification Requirements and Recommendations: 18 semester credit hours

**ED 3380** Curriculum and Instruction in English

**ED 4357** Diagnostic Reading

**ED 4361** Classroom Management Secondary

**ED 4372** Educational Technology

**ED 4V95** Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

Guided Electives

**BIS 1100** Interdisciplinary Studies Freshman Seminar

**UNIV 1010** Freshman Seminar

2 semester credit hours of lower- or upper-level courses (see advisor)

**Bachelor of Arts in Education with 4-8 Science**

**Degree Requirements** (120 semester credit hours)

*View an Example of Degree Requirements by Semester*

**Faculty**

**Professors:** George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith

**Professors of Instruction:** Jillian Duquaine-Watson, Tonja Wissinger

**Associate Professors of Instruction:** Kathleen Byrnes, Patricia A. Leek

**Assistant Professors of Instruction:** Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak

I. Core Curriculum Requirements: 42 semester credit hours

**Communication:** 6 semester credit hours

**COMM 1311** Survey of Oral and Technology-based Communication

**RHET 1302** Rhetoric

Or select any 6 semester credit hours from **Communication Core** courses (see advisor)
Mathematics: 3 semester credit hours

MATH 1314 College Algebra
Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

BIOL 2311 Introduction to Modern Biology I
or BIOL 1300 Body Systems with Lab
BIOL 2312 Introduction to Modern Biology II
Or select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

AMS 2341 American Studies for the Twenty-First Century
or AMS 2300 American Popular Culture
or HUMA 1301 Exploration of the Humanities
Or select any 3 semester credit hours from Language, Philosophy and Culture Core courses (see advisor)

Creative Arts: 3 semester credit hours

ARTS 1301 Exploration of the Arts
Or select any 3 semester credit hours Creative Arts Core courses (see advisor)

American History: 6 semester credit hours

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
Or select any 6 semester credit hours from American History Core courses (see advisor)

Government/Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government
Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences Core courses. (see advisor)

Component Area Option: 6 semester credit hours
CHEM 1311  General Chemistry 6
NATS 1311  The Universe, and Everything Else
  or PHYS 1301  College Physics 4
Or select any 6 semester credit hours from Component Area Option Core courses. (see advisor) 3

II. Major Requirements: 60 semester credit hours beyond Core Curriculum

Major Related Courses (18 semester credit hours)

BIS 3320  The Nature of Intellectual Inquiry
ED 4694  Student Teaching Secondary
ISNS 3373  Our Nearest Neighbors in the Sky
3 semester credit hour lower- or upper-level ISIS course
3 semester credit hour lower- or upper-level course from AMS, GST, ISIS, or BIS 4V01

Foundation I: Natural Science and Mathematics (12 semester credit hours)

NSC 3361  Introduction to Neuroscience
6 semester credit hours of upper-level BIOL courses
And choose one from the following:

GEOS 1303  Physical Geology 4, 6
GEOS 1304  History of Earth and Life 4, 6
GEOS 2310  Environmental Geology 4

Foundation II: Education (12 semester credit hours)

ED 3314  The American Public School
ED 3339  Educational Psychology for Teachers
  or PSY 3339  Educational Psychology
ED 4351  ESL for K-12 Teachers
ED 4353  Reading in Secondary Content

Teaching Techniques (18 semester credit hours)

AMS 4300  Oral and Written Communication for the Classroom
ED 3371  Curriculum and Instruction in the Natural Sciences
ED 4361 Classroom Management Secondary
ED 4372 Educational Technology

Choose two from the following:

ISNS 2367 The Oceans
or ISNS 2359 Earthquakes and Volcanoes
ISNS 2368 Weather and Climate
or ISNS 2366 Global Climate Change

III. Certification Requirements and Recommendations: 18 semester credit hours beyond Core Curriculum

BIS 4306 Strategies for Diversity in Education

CHEM 1312 General Chemistry II
and CHEM 1112 General Chemistry Laboratory II

ED 4V95 Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

Guided Electives

BIS 1100 Interdisciplinary Studies Freshman Seminar

UNIV 1010 Freshman Seminar

7 semester credit hours of lower- or upper-level courses (see advisor)

Bachelor of Arts in Education with 4-8 Social Studies

Degree Requirements (120 semester credit hours)

View an Example of Degree Requirements by Semester

Faculty

Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith

Professors of Instruction: Jillian Duquaine-Watson, Tonja Wissinger

Associate Professors of Instruction: Kathleen Byrnes, Patricia A. Leek

Assistant Professors of Instruction: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak

I. Core Curriculum Requirements: 42 semester credit hours
Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric

Or select any 6 semester credit hours from Communication Core courses (see advisor)

Mathematics: 3 semester credit hours

MATH 1314 College Algebra

Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

AMS 2341 American Studies for the Twenty-First Century
or AMS 2300 American Popular Culture
or HUMA 1301 Exploration of the Humanities

Or select any 3 semester credit hours from Language, Philosophy and Culture Core courses (see advisor)

Creative Arts: 3 semester credit hours

ARTS 1301 Exploration of the Arts

Or select any 3 semester credit hours Creative Arts Core courses (see advisor)

American History: 6 semester credit hours

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War

Or select any 6 semester credit hours from American History Core courses (see advisor)

Government/Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours

ECON 2301 Principles of Macroeconomics
Or select any 3 semester credit hours from Social and Behavioral Sciences Core courses. (see advisor)

Component Area Option: 6 semester credit hours

**ECON 2302** Principles of Microeconomics

**STAT 1342** Statistical Decision Making

or **EPPS 2302** Methods of Quantitative Analysis in the Social and Policy Sciences

Or select any 6 semester credit hours from Component Area Option Core courses. (see advisor)

II. Major Requirements: 60 semester credit hours beyond Core Curriculum

Major Related Courses (18 semester credit hours)

**BIS 3320** The Nature of Intellectual Inquiry

**ED 4694** Student Teaching Secondary

3 semester credit hour lower- or upper-level **ISIS** course

3 semester credit hour lower- or upper-level **ISIS** or **ISNS** course

3 semester credit hour lower- or upper-level course from **AMS, GST, ISIS**, or **BIS 4V01**

Foundation I: Economic, Political and Policy Sciences (12 semester credit hours)

**ECON 3332** Economic Geography

or **ECON 3337** Economics of Poverty and Inequality

**GEOG 2302** The Global Environment

or **GEOG 2303** People and Place: An Introduction to World Geographic Regions

**GEOG 3331** Urban Growth and Structure

or **GEOG 3359** Human Migration and Mobility: Global Patterns

or **GEOG 3370** The Global Economy

**PSCI 3323** American Federalism

or **PSCI 3362** The American Political Institutions

Foundation II: Education (12 semester credit hours)

**ED 3314** The American Public School

**ED 3339** Educational Psychology for Teachers

or **PSY 3339** Educational Psychology
Teaching Techniques (18 semester credit hours) beyond Core Curriculum

- **AMS 4300** Oral and Written Communication for the Classroom
- **AMS 4305** World History for Teachers
- **ED 3382** Curriculum and Instruction in Social Studies
- **ED 4361** Classroom Management Secondary
- **HIST 2301** History of Texas

3 semester credit hour upper-level **HIST** course

III. Certification Requirements and Recommendations: 18 semester credit hours

- **BIS 4306** Strategies for Diversity in Education
- **ED 4372** Educational Technology
- **ED 4V95** Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

Guided Electives

- **BIS 1100** Interdisciplinary Studies Freshman Seminar
- **UNIV 1010** Freshman Seminar

8 semester credit hours of lower- or upper-level courses (see advisor)

Bachelor of Arts in Education with 7-12 Social Studies (Economics Concentration)

**Degree Requirements** (120 semester credit hours)

View an Example of Degree Requirements by Semester

Faculty

- **Professors**: George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith
- **Professors of Instruction**: Jillian Duquaine-Watson, Tonja Wissinger
- **Associate Professors of Instruction**: Kathleen Byrnes, Patricia A. Leek
- **Assistant Professors of Instruction**: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak
I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours
- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric
  Or select any 6 semester credit hours from Communication Core courses (see advisor)

Mathematics: 3 semester credit hours
- **MATH 1325** Applied Calculus I
  Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours
- Select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours
- **AMS 2341** American Studies for the Twenty-First Century
  or **AMS 2300** American Popular Culture
  or **HUMA 1301** Exploration of the Humanities
  Or select any 3 semester credit hours from Language, Philosophy and Culture Core courses (see advisor)

Creative Arts: 3 semester credit hours
- **ARTS 1301** Exploration of the Arts
  Or select any 3 semester credit hours Creative Arts Core courses (see advisor)

American History: 6 semester credit hours
- **HIST 1301** U.S. History Survey to Civil War
- **HIST 1302** U.S. History Survey from Civil War
  Or select any 6 semester credit hours from American History Core courses (see advisor)

Government/Political Science: 6 semester credit hours
- **GOVT 2305** American National Government
- **GOVT 2306** State and Local Government
  Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours
**GEOG 2303** People and Place: An Introduction to World Geographic Regions

Or select any 3 semester credit hours from **Social and Behavioral Sciences Core** courses. (see advisor)

**Component Area Option: 6 semester credit hours**

**ECON 2301** Principles of Macroeconomics

**GEOG 2302** The Global Environment

Or select any 6 semester credit hours from **Component Area Option Core** courses. (see advisor)

II. Major Requirements: 60 semester credit hours beyond Core Curriculum

**Major Related Courses (18 semester credit hours)**

**AMS 4305** World History for Teachers

**BIS 3320** The Nature of Intellectual Inquiry

**ED 4694** Student Teaching Secondary

3 semester credit hour lower- or upper-level **ISIS** course

3 semester credit hour lower- or upper-level **ISIS** or **ISNS** course

**Foundation I: Economic, Political and Policy Sciences (12 semester credit hours)**

**ECON 2302** Principles of Microeconomics

**ECON 3310** Intermediate Microeconomic Theory

**ECON 3311** Intermediate Macroeconomic Theory

**ECON 3330** Economics of Health

or **ECON 3337** Economics of Poverty and Inequality

or **ECON 3381** Economic History

**Foundation II: Education (12 semester credit hours)**

**ED 3314** The American Public School

**ED 3382** Curriculum and Instruction in Social Studies

**ED 4353** Reading in Secondary Content

**ED 4361** Classroom Management Secondary

**Teaching Techniques (18 semester credit hours)**

**AMS 4300** Oral and Written Communication for the Classroom
ED 3339 Educational Psychology for Teachers
or PSY 3339 Educational Psychology
ED 4372 Educational Technology
ECON 4320 Public Sector Economics
or ECON 4345 Industrial Organization
Choose two from the following:
ECON 3312 Money and Banking
ECON 4310 Managerial Economics
ECON 4360 International Trade
ECON 4362 Development Economics
ECON 4382 International Finance

III. Certification Requirements and Recommendations: 18 semester credit hours beyond Core Curriculum

BIS 4306 Strategies for Diversity in Education
ED 4351 ESL for K-12 Teachers
ED 4V95 Special Topics in Education (Topic: Exceptional Populations in the General Education Class)
HIST 2301 History of Texas
STAT 1342 Statistical Decision Making
or EPPS 2302 Methods of Quantitative Analysis in the Social and Policy Sciences

Guided Electives

BIS 1100 Interdisciplinary Studies Freshman Seminar
UNIV 1010 Freshman Seminar
2 semester credit hours of lower- or upper-level courses (see advisor)

Bachelor of Arts in Education with 7-12 Social Studies (Geography Concentration)

Degree Requirements (120 semester credit hours)

View an Example of Degree Requirements by Semester
Faculty

Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith

Professors of Instruction: Jillian Duquaine-Watson, Tonja Wissinger

Associate Professors of Instruction: Kathleen Byrnes, Patricia A. Leek

Assistant Professors of Instruction: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric

Or select any 6 semester credit hours from **Communication Core** courses (see advisor)

Mathematics: 3 semester credit hours

- **MATH 1314** College Algebra

Or select any 3 semester credit hours from **Mathematics Core** courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

- **GEOS 1303** Physical Geology
- **GEOS 1304** History of Earth and Life

Or select any 6 semester credit hours from **Life and Physical Sciences Core** courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

- **AMS 2341** American Studies for the Twenty-First Century
  - or **AMS 2300** American Popular Culture
  - or **HUMA 1301** Exploration of the Humanities

Or select any 3 semester credit hours from **Language, Philosophy and Culture Core** courses (see advisor)

Creative Arts: 3 semester credit hours

- **ARTS 1301** Exploration of the Arts

Or select any 3 semester credit hours from **Creative Arts Core** courses (see advisor)

American History: 6 semester credit hours

- **HIST 1301** U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War

Or select any 6 semester credit hours from American History Core courses (see advisor)

Government/Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours

GEOG 2303 People and Place: An Introduction to World Geographic Regions

Or select any 3 semester credit hours from Social and Behavioral Sciences Core courses. (see advisor)

Component Area Option: 6 semester credit hours

ECON 2301 Principles of Macroeconomics
GEOG 2302 The Global Environment

Or select any 6 semester credit hours from Component Area Option Core courses. (see advisor)

II. Major Requirements: 60 semester credit hours beyond Core Curriculum

Major Related Courses (18 semester credit hours)

AMS 4305 World History for Teachers
BIS 3320 The Nature of Intellectual Inquiry
ED 4694 Student Teaching Secondary

3 semester credit hour lower- or upper-level ISIS course

3 semester credit hour lower- or upper-level ISIS or ISNS course

Foundation I: Economic, Political and Policy Sciences (12 semester credit hours)

ECON 2302 Principles of Microeconomics
GEOG 3359 Human Migration and Mobility: Global Patterns
GEOG 3370 The Global Economy
GEOG 3372 Population and Development

Foundation II: Education (12 semester credit hours)

ED 3314 The American Public School
ED 3339 Educational Psychology for Teachers
or PSY 3339 Educational Psychology
ED 4353 Reading in Secondary Content
ED 4361 Classroom Management Secondary

Teaching Techniques (18 semester credit hours)

AMS 4300 Oral and Written Communication for the Classroom
ED 3382 Curriculum and Instruction in Social Studies
ED 4372 Educational Technology
GEOS 2310 Environmental Geology
HIST 2301 History of Texas

3 semester credit hour upper-level GEOG course

III. Certification Requirements and Recommendations: 18 semester credit hours

BIS 4306 Strategies for Diversity in Education
ED 4351 ESL for K-12 Teachers
ED 4V95 Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

Guided Electives

BIS 1100 Interdisciplinary Studies Freshman Seminar
UNIV 1010 Freshman Seminar

8 semester credit hours of lower- or upper-level courses (see advisor)

Bachelor of Arts in Education with 7-12 Social Studies (Government Concentration)

Degree Requirements (120 semester credit hours)

View an Example of Degree Requirements by Semester

Faculty

Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith
Professors of Instruction: Jillian Duquaine-Watson, Tonja Wissinger
Associate Professors of Instruction: Kathleen Byrnes, Patricia A. Leek

Assistant Professors of Instruction: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

- **COMM 1311** Survey of Oral and Technology-based Communication
- **RHET 1302** Rhetoric
Or select any 6 semester credit hours from **Communication Core** courses (see advisor)

Mathematics: 3 semester credit hours

- **MATH 1314** College Algebra
Or select any 3 semester credit hours from **Mathematics Core** courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from **Life and Physical Sciences Core** courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

- **AMS 2341** American Studies for the Twenty-First Century
  - or **AMS 2300** American Popular Culture
  - or **HUMA 1301** Exploration of the Humanities
Or select any 3 semester credit hours from **Language, Philosophy and Culture Core** courses (see advisor)

Creative Arts: 3 semester credit hours

- **ARTS 1301** Exploration of the Arts
Or select any 3 semester credit hours from **Creative Arts Core** courses (see advisor)

American History: 6 semester credit hours

- **HIST 1301** U.S. History Survey to Civil War
- **HIST 1302** U.S. History Survey from Civil War
Or select any 6 semester credit hours from **American History Core** courses (see advisor)

Government/Political Science: 6 semester credit hours

- **GOVT 2305** American National Government
- **GOVT 2306** State and Local Government
Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)\textsuperscript{3}

Social and Behavioral Sciences: 3 semester credit hours

**GEOG 2303** People and Place: An Introduction to World Geographic Regions

Or select any 3 semester credit hours from Social and Behavioral Sciences Core courses. (see advisor)\textsuperscript{3}

Component Area Option: 6 semester credit hours

**ECON 2301** Principles of Macroeconomics

Or select any 6 semester credit hours from Component Area Option Core courses. (see advisor)\textsuperscript{3}

II. Major Requirements: 60 semester credit hours

Major Related Courses (18 semester credit hours)

**AMS 4305** World History for Teachers

**BIS 3320** The Nature of Intellectual Inquiry

**ED 4694** Student Teaching Secondary

3 semester credit hour lower- or upper-level ISIS course

3 semester credit hour lower- or upper-level ISIS or ISNS course

Foundation I: Economic, Political and Policy Sciences (12 semester credit hours)

**PSCI 3301** Political Theory

**PSCI 3306** Political Economy

3 semester credit hour upper-level ECON course

3 semester credit hour upper-level GEOG course

Foundation II: Education (12 semester credit hours)

**ED 3314** The American Public School

**ED 3382** Curriculum and Instruction in Social Studies

**ED 4353** Reading in Secondary Content

**ED 4361** Classroom Management Secondary

Teaching Techniques (18 semester credit hours)

**AMS 4300** Oral and Written Communication for the Classroom

**ED 3339** Educational Psychology for Teachers
or **PSY 3339** Educational Psychology

**PSCI 3310** Managing Government Organizations

or **PSCI 3362** The American Political Institutions

or 3 semester credit hour upper-level **PSCI** course

**PSCI 3323** American Federalism

or **PSCI 4329** Global Politics

or **PSCI 4354** Contemporary Political Thought

or **PSCI 4V99** Senior Honors in Government and Politics

**PSCI 3327** American Foreign Policy

or **PSCI 3328** International Relations

or **PSCI 3333** Political Behavior

or **PSCI 3350** Comparative Politics

**PSCI 4364** Civil Rights Law and Society

or **PSCI 3303** Civil Liberties

or **PSCI 3322** Constitutional Law

---

### III. Certification Requirements and Recommendations

18 semester credit hours beyond Core Curriculum

**BIS 4306** Strategies for Diversity in Education

**ED 4351** ESL for K-12 Teachers

**ED 4372** Educational Technology

**ED 4V95** Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

**HIST 2301** History of Texas

Guided Electives

**BIS 1100** Interdisciplinary Studies Freshman Seminar

**UNIV 1010** Freshman Seminar

2 semester credit hours of lower- or upper-level courses (see advisor)

---

**Bachelor of Arts in Education with 7-12 Social Studies (History Concentration)**

**Degree Requirements** (120 semester credit hours)
View an Example of Degree Requirements by Semester

Faculty

Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith
Professors of Instruction: Jillian Duquaine-Watson, Tonja Wissinger
Associate Professors of Instruction: Kathleen Byrnes, Patricia A. Leek
Assistant Professors of Instruction: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric
Or select any 6 semester credit hours from Communication Core courses (see advisor)

Mathematics: 3 semester credit hours

MATH 1314 College Algebra
Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

AMS 2341 American Studies for the Twenty-First Century
or AMS 2300 American Popular Culture
or HUMA 1301 Exploration of the Humanities
Or select any 3 semester credit hours from Language, Philosophy and Culture Core courses (see advisor)

Creative Arts: 3 semester credit hours

ARTS 1301 Exploration of the Arts
Or select any 3 semester credit hours Creative Arts Core courses (see advisor)

American History: 6 semester credit hours

HIST 1301 U.S. History Survey to Civil War
HIST 1302  U.S. History Survey from Civil War
Or select any 6 semester credit hours from American History Core courses (see advisor)

Government/Political Science: 6 semester credit hours
GOVT 2305  American National Government
GOVT 2306  State and Local Government
Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours
GEOG 2303  People and Place: An Introduction to World Geographic Regions
Or select any 3 semester credit hours from Social and Behavioral Sciences Core courses. (see advisor)

Component Area Option: 6 semester credit hours
ECON 2301  Principles of Macroeconomics
Or select any 6 semester credit hours from Component Area Option Core courses. (see advisor)

II. Major Requirements: 60 semester credit hours beyond Core Curriculum

Major Related Courses (18 semester credit hours)
AMS 4305  World History for Teachers
BIS 3320  The Nature of Intellectual Inquiry
ED 4694  Student Teaching Secondary
3 semester credit hour lower- or upper-level ISIS course
3 semester credit hour lower- or upper-level ISIS or ISNS course

Foundation I: Economic, Political and Policy Sciences (12 semester credit hours)
3 semester credit hour upper-level ECON course
3 semester credit hour upper-level GEOG course
3 semester credit hour upper-level PSCI course
3 semester credit hour lower- or upper-level PSCI course

Foundation II: Education (12 semester credit hours)
ED 3314  The American Public School
ED 3339  Educational Psychology for Teachers
or **PSY 3339** Educational Psychology

**ED 4353** Reading in Secondary Content

**ED 4361** Classroom Management Secondary

**Teaching Techniques (18 semester credit hours)**

**AMS 4300** Oral and Written Communication for the Classroom

**ED 3382** Curriculum and Instruction in Social Studies

**HIST 2301** History of Texas

9 semester credit hours of upper-level **HIST** courses (GEOG area or disciplinary focus)

**III. Certification Requirements and Recommendations: 18 semester credit hours**

**BIS 4306** Strategies for Diversity in Education

**ED 4351** ESL for K-12 Teachers

**ED 4372** Educational Technology

**ED 4V95** Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

**HIST 3301** Historical Inquiry

**Guided Electives**

**BIS 1100** Interdisciplinary Studies Freshman Seminar

**UNIV 1010** Freshman Seminar

2 semester credit hours of lower- or upper-level courses (see advisor)

**Bachelor of Science in Education with 4-8 Mathematics**

**Degree Requirements** (120 semester credit hours)

*View an Example of Degree Requirements by Semester*

**Faculty**

**Professors:** George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith

**Professors of Instruction:** Jillian Duquaine-Watson, Tonja Wissinger

**Associate Professors of Instruction:** Kathleen Byrnes, Patricia A. Leek
Assistant Professors of Instruction: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

COMM 1311 Survey of Oral and Technology-based Communication
RHET 1302 Rhetoric
Or select any 6 semester credit hours from Communication Core courses (see advisor)

Mathematics: 3 semester credit hours

MATH 2413 Differential Calculus
or MATH 2417 Calculus I
or MATH 1325 Applied Calculus I
Or select any 3 semester credit hours from Mathematics Core courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

Select any 6 semester credit hours from Life and Physical Sciences Core courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

AMS 2341 American Studies for the Twenty-First Century
or AMS 2300 American Popular Culture
or HUMA 1301 Exploration of the Humanities
Or select any 3 semester credit hours from Language, Philosophy and Culture Core courses (see advisor)

Creative Arts: 3 semester credit hours

ARTS 1301 Exploration of the Arts
Or select any 3 semester credit hours Creative Arts Core courses (see advisor)

American History: 6 semester credit hours

HIST 1301 U.S. History Survey to Civil War
HIST 1302 U.S. History Survey from Civil War
Or select any 6 semester credit hours from American History Core courses (see advisor)

Government/Political Science: 6 semester credit hours

GOVT 2305 American National Government
GOVT 2306 State and Local Government

Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences Core courses. (see advisor)

Component Area Option: 6 semester credit hours

MATH 2414 Integral Calculus 8

or MATH 2419 Calculus II 8

or MATH 1326 Applied Calculus II 8

MATH 2415 Calculus of Several Variables 8

Or select any 6 semester credit hours from Component Area Option Core courses. (see advisor) 3

II. Major Requirements: 60-61 semester credit hours beyond Core Curriculum

Major Related Courses (18 semester credit hours)

BIS 3320 The Nature of Intellectual Inquiry

ED 4694 Student Teaching Secondary

9 semester credit hours of lower- or upper-level ISNS courses

Foundation I: Natural Science and Mathematics (12-13 semester credit hours)

MATH 2312 Precalculus 4, 5

MATH 2333 Matrices, Vectors, and Their Application 5

or MATH 2418 Linear Algebra 5

MATH 3303 Introduction to Mathematical Modeling 5

MATH 3305 Foundations of Measurement and Informal Geometry 5

or MATH 3321 Geometry 5

Foundation II: Education (12 semester credit hours)

ED 3314 The American Public School

ED 3339 Educational Psychology for Teachers

or PSY 3339 Educational Psychology

ED 4351 ESL for K-12 Teachers
ED 4353 Reading in Secondary Content

Teaching Techniques (18 semester credit hours)

BIS 4306 Strategies for Diversity in Education
ED 4361 Classroom Management Secondary

MATH 3307 Mathematical Problem Solving for Teachers
STAT 3360 Probability and Statistics for Management and Economics

6 semester credit hours of upper-level Mathematics or Science courses (see advisor)

III. Certification Requirements and Recommendations: 17-18 semester credit hours

AMS 4300 Oral and Written Communication for the Classroom
ED 4344 Mathematics Methods for Elementary Teachers
ED 4372 Educational Technology
ED 4V95 Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

Guided Electives

BIS 1100 Interdisciplinary Studies Freshman Seminar
UNIV 1010 Freshman Seminar

4-5 semester credit hours of lower- or upper-level courses (see advisor)

Bachelor of Science in Education with 4-8 Science

Degree Requirements (120 semester credit hours)

View an Example of Degree Requirements by Semester

Faculty

Professors: George W. Fair, Karen J. Prager, Lawrence J. Redlinger, Erin A. Smith
Professors of Instruction: Jillian Duquaine-Watson, Tonja Wissinger
Associate Professors of Instruction: Kathleen Byrnes, Patricia A. Leek
Assistant Professors of Instruction: Syed Naqvi, Neall Pogue, Azadeh Stark, Larissa Werhnyak

I. Core Curriculum Requirements: 42 semester credit hours

Communication: 6 semester credit hours

**COMM 1311** Survey of Oral and Technology-based Communication

**RHET 1302** Rhetoric

Or select any 6 semester credit hours from **Communication Core** courses (see advisor)

Mathematics: 3 semester credit hours

**MATH 1325** Applied Calculus I

**MATH 2413** Differential Calculus

**MATH 2417** Calculus I

Or select any 3 semester credit hours from **Mathematics Core** courses (see advisor)

Life and Physical Sciences: 6 semester credit hours

**BIOL 2311** Introduction to Modern Biology I

**BIOL 1300** Body Systems with Lab

**BIOL 2312** Introduction to Modern Biology II

Or select any 6 semester credit hours from **Life and Physical Sciences Core** courses (see advisor)

Language, Philosophy and Culture: 3 semester credit hours

**AMS 2341** American Studies for the Twenty-First Century

**AMS 2300** American Popular Culture

**HUMA 1301** Exploration of the Humanities

Or select any 3 semester credit hours from **Language, Philosophy and Culture Core** courses (see advisor)

Creative Arts: 3 semester credit hours

Arts 1301 Exploration of the Arts

Or select any 3 semester credit hours **Creative Arts Core** courses (see advisor)

American History: 6 semester credit hours

**HIST 1301** U.S. History Survey to Civil War

**HIST 1302** U.S. History Survey from Civil War

Or select any 6 semester credit hours from **American History Core** courses (see advisor)

Government/Political Science: 6 semester credit hours

**GOVT 2305** American National Government
GOVT 2306 State and Local Government

Or select any 6 semester credit hours from Government/Political Science Core courses (see advisor)

Social and Behavioral Sciences: 3 semester credit hours

Select any 3 semester credit hours from Social and Behavioral Sciences Core courses. (see advisor)

Component Area Option: 6 semester credit hours

MATH 1326 Applied Calculus II
or MATH 2414 Integral Calculus
or MATH 2419 Calculus II
MATH 2415 Calculus of Several Variables

Or select any 6 semester credit hours from Component Area Option Core courses. (see advisor)

II. Major Requirements: 60 semester credit hours beyond Core Curriculum

Major Related Courses (18 semester credit hours)

BIS 3320 The Nature of Intellectual Inquiry
ED 4694 Student Teaching Secondary
ISNS 3373 Our Nearest Neighbors in the Sky

Choose two from the following:

ISNS 2367 The Oceans
or ISNS 2359 Earthquakes and Volcanoes
ISNS 2368 Weather and Climate
or ISNS 2366 Global Climate Change

Foundation I: Natural Science and Mathematics (12 semester credit hours)

NATS 1311 The Universe, and Everything Else
or PHYS 1301 College Physics

6 semester credit hours of upper-level BIOL courses

And choose one from the following:

GEOS 1303 Physical Geology
GEOS 1304 History of Earth and Life
GEOS 2310  Environmental Geology

Foundation II: Education (12 semester credit hours)

ED 3314  The American Public School
ED 3339  Educational Psychology for Teachers
or PSY 3339  Educational Psychology
ED 4351  ESL for K-12 Teachers
ED 4353  Reading in Secondary Content

Teaching Techniques (18 semester credit hours)

BIOL 2281  Modern Biology
CHEM 1311  General Chemistry I
CHEM 1111  General Chemistry Laboratory I
CHEM 1312  General Chemistry II
ED 3371  Curriculum and Instruction in the Natural Sciences
ED 4361  Classroom Management Secondary
NSC 3361  Introduction to Neuroscience

III. Certification Requirements and Recommendations: 18 semester credit hours beyond Core Curriculum

BIS 4306  Strategies for Diversity in Education
CHEM 1112  General Chemistry Laboratory II
ED 4372  Educational Technology
ED 4V95  Special Topics in Education (Topic: Exceptional Populations in the General Education Class)

Guided Electives

BIS 1100  Interdisciplinary Studies Freshman Seminar
UNIV 1010  Freshman Seminar

3 semester credit hours of upper-level Mathematics or Science courses (see advisor)
4 semester credit hours of lower- or upper-level courses (see advisor)

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
2. Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Students are strongly encouraged to take core courses that are closely related to their foundations, concentrations, and career goals.

4. A required Major course that also fulfills a Core Curriculum requirement. Semester credit hours may be counted in Core Curriculum.

5. Indicates a prerequisite class that may be required before enrolling for upper-division classes.

6. Requires enrollment in corequisite lab course. Lab semester credit hours to be counted in Guided Electives.

7. Preferred course for 7-12 Social Studies (Economics Concentration).

8. Three semester credit hours of Calculus to be used to fulfill Core Requirement with the remaining one semester credit hour to be counted in Guided Electives.

Updated: 2022-01-19 14:57:03 v29.59799b