

CURRICULUM FOR ENVIRONMENTAL SCIENCE

CURRICULUM FOR ENVIRONMENTAL SCIENCE PLAYS A CRUCIAL ROLE IN SHAPING KNOWLEDGEABLE PROFESSIONALS EQUIPPED TO TACKLE PRESSING ECOLOGICAL CHALLENGES. THIS COMPREHENSIVE EDUCATIONAL FRAMEWORK INTEGRATES INTERDISCIPLINARY SUBJECTS SUCH AS BIOLOGY, CHEMISTRY, GEOLOGY, AND SOCIAL SCIENCES TO PROVIDE A WELL-ROUNDED UNDERSTANDING OF ENVIRONMENTAL SYSTEMS AND SUSTAINABILITY. A WELL-STRUCTURED CURRICULUM FOR ENVIRONMENTAL SCIENCE FOSTERS CRITICAL THINKING, PROBLEM-SOLVING SKILLS, AND PRACTICAL EXPERIENCE THROUGH LABORATORY WORK, FIELD STUDIES, AND RESEARCH PROJECTS. IT EMPHASIZES THE IMPORTANCE OF HUMAN IMPACT ON NATURAL RESOURCES, CLIMATE CHANGE, POLLUTION CONTROL, AND CONSERVATION STRATEGIES. THIS ARTICLE EXPLORES THE ESSENTIAL COMPONENTS OF AN EFFECTIVE CURRICULUM FOR ENVIRONMENTAL SCIENCE, HIGHLIGHTING CORE SUBJECTS, PRACTICAL APPLICATIONS, AND EMERGING TRENDS IN ENVIRONMENTAL EDUCATION. ADDITIONALLY, IT OUTLINES THE SKILLS AND CAREER PATHS THAT STUDENTS CAN PURSUE UPON COMPLETION OF SUCH PROGRAMS. THE FOLLOWING SECTIONS PROVIDE DETAILED INSIGHTS INTO THE CURRICULUM DESIGN, CORE TOPICS, TEACHING METHODOLOGIES, AND ASSESSMENT APPROACHES THAT DEFINE MODERN ENVIRONMENTAL SCIENCE EDUCATION.

- KEY COMPONENTS OF THE CURRICULUM FOR ENVIRONMENTAL SCIENCE
- CORE SUBJECTS AND LEARNING OBJECTIVES
- TEACHING METHODOLOGIES AND LEARNING APPROACHES
- PRACTICAL APPLICATIONS AND FIELDWORK INTEGRATION
- SKILLS DEVELOPMENT AND CAREER OPPORTUNITIES

KEY COMPONENTS OF THE CURRICULUM FOR ENVIRONMENTAL SCIENCE

THE CURRICULUM FOR ENVIRONMENTAL SCIENCE IS DESIGNED TO COVER A BROAD SPECTRUM OF KNOWLEDGE AREAS AND SKILLS ESSENTIAL FOR UNDERSTANDING AND ADDRESSING ENVIRONMENTAL ISSUES. IT INTEGRATES NATURAL SCIENCES WITH SOCIAL AND POLICY PERSPECTIVES TO ENSURE A HOLISTIC EDUCATIONAL EXPERIENCE. CORE COMPONENTS TYPICALLY INCLUDE THEORETICAL FOUNDATIONS, APPLIED SCIENCES, RESEARCH TECHNIQUES, AND EXPERIENTIAL LEARNING OPPORTUNITIES. THE CURRICULUM BALANCES SCIENTIFIC RIGOR WITH PRACTICAL RELEVANCE, PREPARING STUDENTS TO ANALYZE ENVIRONMENTAL PROBLEMS CRITICALLY AND PROPOSE VIABLE SOLUTIONS. ADDITIONALLY, IT FOSTERS AWARENESS OF ETHICAL CONSIDERATIONS AND SUSTAINABILITY PRINCIPLES, WHICH ARE VITAL FOR RESPONSIBLE ENVIRONMENTAL STEWARDSHIP.

INTERDISCIPLINARY INTEGRATION

ENVIRONMENTAL SCIENCE INHERENTLY REQUIRES BLENDING MULTIPLE DISCIPLINES SUCH AS ECOLOGY, CHEMISTRY, PHYSICS, AND ECONOMICS. THE CURRICULUM PROMOTES INTERDISCIPLINARY STUDIES TO HELP STUDENTS GRASP COMPLEX ENVIRONMENTAL SYSTEMS AND HUMAN INTERACTIONS. THIS INTEGRATION ENCOURAGES COMPREHENSIVE PROBLEM-SOLVING AND INNOVATION IN ENVIRONMENTAL MANAGEMENT.

FOUNDATION IN SCIENTIFIC PRINCIPLES

A STRONG GROUNDING IN THE FUNDAMENTAL SCIENCES IS ESSENTIAL. COURSES IN BIOLOGY, CHEMISTRY, GEOLOGY, AND PHYSICS PROVIDE THE SCIENTIFIC BASIS FOR UNDERSTANDING ECOSYSTEMS, POLLUTION DYNAMICS, AND RESOURCE CYCLES. THESE FOUNDATIONAL SUBJECTS ENABLE STUDENTS TO COMPREHEND THE MECHANISMS BEHIND ENVIRONMENTAL PHENOMENA.

INCLUSION OF POLICY AND SOCIAL SCIENCES

UNDERSTANDING ENVIRONMENTAL CHALLENGES ALSO DEMANDS KNOWLEDGE OF ENVIRONMENTAL LAWS, POLICIES, AND SOCIO-ECONOMIC FACTORS. THE CURRICULUM INCORPORATES STUDIES IN ENVIRONMENTAL ECONOMICS, POLICY ANALYSIS, AND COMMUNITY ENGAGEMENT TO EQUIP STUDENTS WITH THE TOOLS TO INFLUENCE SUSTAINABLE DEVELOPMENT AND GOVERNANCE.

CORE SUBJECTS AND LEARNING OBJECTIVES

CORE SUBJECTS FORM THE BACKBONE OF THE CURRICULUM FOR ENVIRONMENTAL SCIENCE, EACH TARGETING SPECIFIC LEARNING OUTCOMES THAT BUILD ESSENTIAL COMPETENCIES. THESE SUBJECTS COLLECTIVELY ENHANCE STUDENTS' SCIENTIFIC LITERACY, ANALYTICAL SKILLS, AND ENVIRONMENTAL AWARENESS.

ENVIRONMENTAL BIOLOGY AND ECOLOGY

THIS SUBJECT FOCUSES ON THE RELATIONSHIPS BETWEEN ORGANISMS AND THEIR ENVIRONMENTS. STUDENTS LEARN ABOUT BIODIVERSITY, ECOSYSTEM DYNAMICS, POPULATION BIOLOGY, AND CONSERVATION PRINCIPLES. THE OBJECTIVE IS TO UNDERSTAND HOW LIVING SYSTEMS FUNCTION AND RESPOND TO ENVIRONMENTAL CHANGES.

ENVIRONMENTAL CHEMISTRY AND TOXICOLOGY

COURSES IN ENVIRONMENTAL CHEMISTRY COVER CHEMICAL PROCESSES IN NATURAL AND POLLUTED ENVIRONMENTS, INCLUDING THE BEHAVIOR OF CONTAMINANTS. TOXICOLOGY EXPLORES THE EFFECTS OF POLLUTANTS ON ORGANISMS AND HUMAN HEALTH. LEARNING OBJECTIVES INCLUDE IDENTIFYING POLLUTANTS AND ASSESSING THEIR ENVIRONMENTAL IMPACT.

GEOLOGY AND EARTH SYSTEMS

THIS AREA STUDIES EARTH'S PHYSICAL STRUCTURE, NATURAL RESOURCES, AND GEOLOGICAL HAZARDS. STUDENTS GAIN INSIGHTS INTO SOIL SCIENCE, HYDROLOGY, AND ATMOSPHERIC PROCESSES, WHICH ARE CRITICAL FOR UNDERSTANDING ENVIRONMENTAL CHANGE AND RESOURCE MANAGEMENT.

ENVIRONMENTAL POLICY AND MANAGEMENT

STUDENTS EXAMINE FRAMEWORKS FOR ENVIRONMENTAL REGULATION, RESOURCE MANAGEMENT STRATEGIES, AND SUSTAINABLE DEVELOPMENT PRACTICES. THE GOAL IS TO DEVELOP SKILLS IN POLICY ANALYSIS, ENVIRONMENTAL PLANNING, AND STAKEHOLDER COLLABORATION.

DATA ANALYSIS AND RESEARCH METHODS

PROFICIENCY IN DATA COLLECTION, STATISTICAL ANALYSIS, AND SCIENTIFIC RESEARCH METHODS IS EMPHASIZED. THESE SKILLS ENSURE STUDENTS CAN CRITICALLY EVALUATE ENVIRONMENTAL DATA AND CONDUCT INDEPENDENT RESEARCH PROJECTS.

TEACHING METHODOLOGIES AND LEARNING APPROACHES

EFFECTIVE DELIVERY OF THE CURRICULUM FOR ENVIRONMENTAL SCIENCE RELIES ON DIVERSE TEACHING METHODOLOGIES THAT PROMOTE ACTIVE LEARNING AND CRITICAL THINKING. THESE APPROACHES HELP STUDENTS ENGAGE DEEPLY WITH COMPLEX MATERIAL AND DEVELOP PRACTICAL SKILLS.

LECTURES AND SEMINARS

TRADITIONAL LECTURES PROVIDE FOUNDATIONAL KNOWLEDGE, WHILE SEMINARS ENCOURAGE DISCUSSION, DEBATE, AND EXPLORATION OF CURRENT ENVIRONMENTAL ISSUES. THIS COMBINATION FOSTERS ANALYTICAL THINKING AND COLLABORATIVE LEARNING.

LABORATORY WORK

LABORATORY SESSIONS ALLOW STUDENTS TO APPLY THEORETICAL CONCEPTS THROUGH EXPERIMENTS AND HANDS-ON INVESTIGATIONS. THIS EXPERIENTIAL LEARNING REINFORCES UNDERSTANDING OF SCIENTIFIC PRINCIPLES AND TECHNIQUES.

FIELD STUDIES AND OUTDOOR LEARNING

FIELDWORK IS A VITAL COMPONENT, OFFERING REAL-WORLD EXPOSURE TO ECOSYSTEMS, POLLUTION ASSESSMENT, AND ENVIRONMENTAL MONITORING. OUTDOOR LEARNING ENHANCES OBSERVATIONAL SKILLS AND CONTEXTUALIZES CLASSROOM KNOWLEDGE.

PROJECT-BASED LEARNING

PROJECTS AND CASE STUDIES CHALLENGE STUDENTS TO SOLVE PRACTICAL ENVIRONMENTAL PROBLEMS, ENCOURAGING CREATIVITY, RESEARCH SKILLS, AND TEAMWORK. THIS APPROACH SIMULATES PROFESSIONAL ENVIRONMENTAL SCIENCE SCENARIOS.

PRACTICAL APPLICATIONS AND FIELDWORK INTEGRATION

INCORPORATING PRACTICAL APPLICATIONS WITHIN THE CURRICULUM FOR ENVIRONMENTAL SCIENCE BRIDGES THEORY AND PRACTICE. FIELDWORK AND INTERNSHIPS PROVIDE ESSENTIAL EXPERIENTIAL LEARNING THAT PREPARES STUDENTS FOR PROFESSIONAL ROLES.

ENVIRONMENTAL MONITORING AND ASSESSMENT

STUDENTS LEARN TECHNIQUES FOR SAMPLING AIR, WATER, AND SOIL QUALITY, AS WELL AS METHODS FOR BIODIVERSITY SURVEYS. THESE SKILLS ARE CRITICAL FOR ENVIRONMENTAL IMPACT ASSESSMENTS AND REGULATORY COMPLIANCE.

USE OF TECHNOLOGY AND SOFTWARE

THE CURRICULUM INTEGRATES GEOGRAPHIC INFORMATION SYSTEMS (GIS), REMOTE SENSING, AND DATA MODELING TOOLS. PROFICIENCY IN THESE TECHNOLOGIES ENHANCES STUDENTS' ABILITY TO ANALYZE SPATIAL AND ENVIRONMENTAL DATA EFFECTIVELY.

INTERNSHIPS AND COMMUNITY ENGAGEMENT

PRACTICAL EXPERIENCE THROUGH INTERNSHIPS WITH ENVIRONMENTAL ORGANIZATIONS OR GOVERNMENT AGENCIES PROVIDES INSIGHT INTO REAL-WORLD CHALLENGES AND PROFESSIONAL PRACTICES. COMMUNITY PROJECTS FOSTER SOCIAL RESPONSIBILITY AND COLLABORATION.

SKILLS DEVELOPMENT AND CAREER OPPORTUNITIES

THE CURRICULUM FOR ENVIRONMENTAL SCIENCE EQUIPS STUDENTS WITH A DIVERSE SET OF SKILLS APPLICABLE TO VARIOUS ENVIRONMENTAL CAREERS. GRADUATES ARE PREPARED FOR ROLES IN RESEARCH, POLICY, CONSERVATION, EDUCATION, AND INDUSTRY.

ANALYTICAL AND CRITICAL THINKING SKILLS

BY ENGAGING WITH COMPLEX ENVIRONMENTAL DATA AND PROBLEMS, STUDENTS DEVELOP STRONG ANALYTICAL ABILITIES AND CRITICAL THINKING, ESSENTIAL FOR SCIENTIFIC RESEARCH AND DECISION-MAKING.

COMMUNICATION AND COLLABORATION

EFFECTIVE COMMUNICATION SKILLS, INCLUDING REPORT WRITING AND PRESENTATIONS, ARE CULTIVATED. COLLABORATIVE PROJECTS AND INTERDISCIPLINARY LEARNING ENHANCE TEAMWORK CAPABILITIES.

CAREER PATHS IN ENVIRONMENTAL SCIENCE

GRADUATES CAN PURSUE CAREERS AS ENVIRONMENTAL CONSULTANTS, POLICY ANALYSTS, CONSERVATION SCIENTISTS, ENVIRONMENTAL EDUCATORS, OR RESEARCH SCIENTISTS. THE CURRICULUM ALSO SUPPORTS FURTHER ACADEMIC STUDY AND SPECIALIZATION.

- ENVIRONMENTAL CONSULTANT
- CONSERVATION SCIENTIST
- ENVIRONMENTAL POLICY ANALYST
- ECOLOGIST
- ENVIRONMENTAL EDUCATOR
- RESEARCH SCIENTIST
- ENVIRONMENTAL HEALTH AND SAFETY SPECIALIST

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE KEY COMPONENTS OF A MODERN ENVIRONMENTAL SCIENCE CURRICULUM?

A MODERN ENVIRONMENTAL SCIENCE CURRICULUM TYPICALLY INCLUDES TOPICS SUCH AS ECOLOGY, CLIMATE CHANGE, RENEWABLE ENERGY, ENVIRONMENTAL POLICIES, CONSERVATION BIOLOGY, POLLUTION CONTROL, AND SUSTAINABILITY PRACTICES.

HOW DOES AN ENVIRONMENTAL SCIENCE CURRICULUM INCORPORATE INTERDISCIPLINARY

LEARNING?

ENVIRONMENTAL SCIENCE CURRICULA OFTEN INTEGRATE KNOWLEDGE FROM BIOLOGY, CHEMISTRY, GEOLOGY, GEOGRAPHY, ECONOMICS, AND SOCIAL SCIENCES TO PROVIDE A HOLISTIC UNDERSTANDING OF ENVIRONMENTAL ISSUES AND SOLUTIONS.

WHAT SKILLS DO STUDENTS GAIN FROM STUDYING AN ENVIRONMENTAL SCIENCE CURRICULUM?

STUDENTS DEVELOP CRITICAL THINKING, DATA ANALYSIS, RESEARCH METHODOLOGY, PROBLEM-SOLVING, FIELDWORK TECHNIQUES, AND AN UNDERSTANDING OF ENVIRONMENTAL LAWS AND ETHICS.

HOW IS TECHNOLOGY INTEGRATED INTO THE ENVIRONMENTAL SCIENCE CURRICULUM?

TECHNOLOGY IS INCORPORATED THROUGH THE USE OF GIS (GEOGRAPHIC INFORMATION SYSTEMS), REMOTE SENSING, ENVIRONMENTAL MODELING SOFTWARE, DATA COLLECTION INSTRUMENTS, AND LABORATORY SIMULATIONS TO ANALYZE AND ADDRESS ENVIRONMENTAL PROBLEMS.

WHAT ARE THE EMERGING TOPICS INCLUDED IN RECENT ENVIRONMENTAL SCIENCE CURRICULA?

EMERGING TOPICS INCLUDE CLIMATE RESILIENCE, CIRCULAR ECONOMY, ENVIRONMENTAL JUSTICE, GREEN TECHNOLOGIES, BIODIVERSITY LOSS, AND THE IMPACT OF HUMAN ACTIVITIES ON GLOBAL ECOSYSTEMS.

HOW DOES THE ENVIRONMENTAL SCIENCE CURRICULUM ADDRESS SUSTAINABILITY EDUCATION?

THE CURRICULUM EMPHASIZES SUSTAINABLE DEVELOPMENT GOALS, TEACHES PRINCIPLES OF RESOURCE CONSERVATION, PROMOTES ECO-FRIENDLY PRACTICES, AND ENCOURAGES STUDENTS TO DEVELOP SOLUTIONS FOR SUSTAINABLE LIVING AND ENVIRONMENTAL STEWARDSHIP.

ADDITIONAL RESOURCES

1. *DESIGNING CURRICULUM FOR ENVIRONMENTAL SCIENCE EDUCATION*

THIS BOOK OFFERS COMPREHENSIVE STRATEGIES FOR DEVELOPING ENVIRONMENTAL SCIENCE CURRICULA THAT ENGAGE STUDENTS THROUGH INTERDISCIPLINARY APPROACHES. IT EMPHASIZES THE INTEGRATION OF SCIENTIFIC CONCEPTS WITH REAL-WORLD ENVIRONMENTAL ISSUES TO FOSTER CRITICAL THINKING AND PROBLEM-SOLVING SKILLS. EDUCATORS WILL FIND PRACTICAL GUIDANCE ON LESSON PLANNING, ASSESSMENT, AND INCORPORATING FIELDWORK INTO THEIR TEACHING.

2. *ENVIRONMENTAL SCIENCE CURRICULUM: PRINCIPLES AND PRACTICES*

FOCUSED ON FOUNDATIONAL PRINCIPLES, THIS TEXT EXPLORES EFFECTIVE PRACTICES FOR CREATING AND IMPLEMENTING ENVIRONMENTAL SCIENCE CURRICULA AT VARIOUS EDUCATIONAL LEVELS. IT DISCUSSES THE IMPORTANCE OF SUSTAINABILITY, ECOLOGICAL LITERACY, AND ENVIRONMENTAL ETHICS. THE BOOK ALSO INCLUDES CASE STUDIES DEMONSTRATING SUCCESSFUL CURRICULUM MODELS FROM DIFFERENT REGIONS.

3. *INNOVATIONS IN ENVIRONMENTAL SCIENCE EDUCATION*

THIS BOOK HIGHLIGHTS RECENT INNOVATIONS IN TEACHING ENVIRONMENTAL SCIENCE, INCLUDING THE USE OF TECHNOLOGY, PROJECT-BASED LEARNING, AND COMMUNITY ENGAGEMENT. IT PROVIDES EDUCATORS WITH TOOLS TO UPDATE THEIR CURRICULA TO MEET CURRENT ENVIRONMENTAL CHALLENGES. ADDITIONALLY, IT ADDRESSES THE ROLE OF POLICY AND ADVOCACY IN ENVIRONMENTAL EDUCATION.

4. *CURRICULUM DEVELOPMENT FOR SUSTAINABILITY AND ENVIRONMENTAL AWARENESS*

AIMED AT FOSTERING SUSTAINABILITY EDUCATION, THIS RESOURCE GUIDES EDUCATORS IN DESIGNING CURRICULA THAT PROMOTE ENVIRONMENTAL AWARENESS AND RESPONSIBLE CITIZENSHIP. IT COVERS INTERDISCIPLINARY CONTENT, PEDAGOGICAL APPROACHES, AND ASSESSMENT METHODS TAILORED TO SUSTAINABILITY GOALS. THE BOOK ALSO DISCUSSES COLLABORATION

WITH LOCAL COMMUNITIES AND ORGANIZATIONS.

5. *TEACHING ENVIRONMENTAL SCIENCE: CURRICULUM AND INSTRUCTIONAL STRATEGIES*

THIS BOOK PRESENTS A RANGE OF INSTRUCTIONAL STRATEGIES FOR EFFECTIVE ENVIRONMENTAL SCIENCE TEACHING, INCLUDING INQUIRY-BASED LEARNING AND EXPERIENTIAL ACTIVITIES. IT EMPHASIZES CURRICULUM ALIGNMENT WITH NATIONAL STANDARDS AND ENVIRONMENTAL LITERACY FRAMEWORKS. TEACHERS WILL FIND ADAPTABLE LESSON PLANS AND ASSESSMENT TOOLS TO ENHANCE STUDENT ENGAGEMENT.

6. *GLOBAL PERSPECTIVES IN ENVIRONMENTAL SCIENCE CURRICULUM*

EXPLORING ENVIRONMENTAL ISSUES FROM A GLOBAL VIEWPOINT, THIS BOOK HELPS EDUCATORS INCORPORATE INTERNATIONAL CASE STUDIES AND CROSS-CULTURAL PERSPECTIVES INTO THEIR CURRICULA. IT ENCOURAGES STUDENTS TO UNDERSTAND GLOBAL INTERDEPENDENCIES AND ENVIRONMENTAL JUSTICE. THE TEXT ALSO ADDRESSES CHALLENGES IN ADAPTING CURRICULA FOR DIVERSE EDUCATIONAL CONTEXTS.

7. *INTEGRATING ENVIRONMENTAL SCIENCE ACROSS THE CURRICULUM*

THIS RESOURCE ADVOCATES FOR THE INTEGRATION OF ENVIRONMENTAL SCIENCE TOPICS INTO VARIOUS SUBJECT AREAS, SUCH AS BIOLOGY, GEOGRAPHY, AND SOCIAL STUDIES. IT PROVIDES PRACTICAL EXAMPLES AND INTERDISCIPLINARY LESSON PLANS THAT CONNECT ENVIRONMENTAL CONCEPTS WITH BROADER ACADEMIC GOALS. THE BOOK SUPPORTS EDUCATORS IN CREATING COHESIVE AND RELEVANT LEARNING EXPERIENCES.

8. *ASSESSMENT AND EVALUATION IN ENVIRONMENTAL SCIENCE EDUCATION*

FOCUSING ON ASSESSMENT, THIS BOOK OFFERS METHODS TO EVALUATE STUDENT UNDERSTANDING AND PROGRESS IN ENVIRONMENTAL SCIENCE. IT COVERS FORMATIVE AND SUMMATIVE ASSESSMENTS, PERFORMANCE TASKS, AND RUBRICS TAILORED TO ENVIRONMENTAL EDUCATION. EDUCATORS WILL LEARN HOW TO USE ASSESSMENT DATA TO IMPROVE CURRICULUM AND INSTRUCTION.

9. *FIELD-BASED CURRICULUM DESIGN FOR ENVIRONMENTAL SCIENCE*

THIS BOOK EMPHASIZES THE IMPORTANCE OF FIELD EXPERIENCES IN ENVIRONMENTAL SCIENCE EDUCATION AND GUIDES EDUCATORS IN DESIGNING CURRICULA THAT INCLUDE OUTDOOR LEARNING. IT DISCUSSES SAFETY, LOGISTICS, AND PEDAGOGICAL BENEFITS OF FIELDWORK. THE TEXT ALSO PROVIDES EXAMPLES OF SUCCESSFUL FIELD-BASED CURRICULUM UNITS THAT ENHANCE STUDENT OBSERVATION AND DATA COLLECTION SKILLS.

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outcomes of the InTeGrate project, a community effort funded by the National Science Foundation to improve Earth literacy and build a workforce prepared to tackle environmental and resource issues. The InTeGrate community is built around the shared goal of supporting interdisciplinary learning about Earth across the undergraduate curriculum, focusing on the grand challenges facing society and the important role that the geosciences play in addressing these grand challenges. The chapters in this book explicitly illustrate the intimate relationship between geoscience and sustainability that is often opaque to students. The authors of these chapters are faculty members, administrators, program directors, and researchers from institutions across the country who have collectively envisioned, implemented, and evaluated effective change in their classrooms, programs, institutions, and beyond. This book provides guidance to anyone interested in implementing change—on scales ranging from a single course to an entire program—by infusing sustainability across the curriculum, broadening access to Earth and environmental sciences, and assessing the impacts of those changes.

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