Journalism

The Journalism summer minor at UC Berkeley is designed to give students hands-on training in improving and modernizing their skills across a wide range of communication media, including narrative writing and reporting, web skills, social media, photography and video, and audio reporting and production.

No matter your major or intended profession, literacy today requires the ability to communicate not just with text but also with pictures, video, and sound. Although Millennials are often described as "digital natives" and are accustomed to ubiquitous flows of online information, many do not know how to shape that information into compelling, well-reported narratives. Instruction will focus on teaching students to use the latest digital tools to engage with audiences in their work and to think critically and responsibly about information.

The minor is open to all Berkeley students. For visitors—including students from abroad, from UC campuses elsewhere, or from other universities—a certificate option is available. Courses are also open to students who are not seeking the minor or a certificate.

The undergraduate minor is housed in the UC Berkeley Graduate School of Journalism, which is widely regarded as one of the top professional journalism academies in the United States. Its teaching faculty is composed of distinguished current and former professional journalists who bring real-world expertise to the classroom. The master's program was launched in 1951 and established as a professional school at UC Berkeley in 1968.

Declaring the Minor

Students intending to pursue the minor degree must submit a Declaration of Intent to Pursue the Undergraduate Minor in Journalism with the Director of Undergraduate Programs at the GSJ upon completion of their first course.

Students must submit a Completion of the Undergraduate Minor in Journalism form at the start of their final course in the minor sequence.

Students with a strong interest in an area of study outside their major often decide to complete a minor program. These programs have set requirements and are noted officially on the transcript in the memoranda section, but are not noted on diplomas.

The curriculum is organized into two parts: two core courses followed by three elective courses, emphasizing respectively, fundamentals and focused expertise.

There are two required introductory courses—the first on journalistic reporting, writing, principles and ethics; and a second course on new forms of digital media and techniques of online storytelling. After completing the two required courses, students choose three elective courses in which they receive hands-on training in specialized reporting and/or multimedia production. All courses are upper division. The two parts of the curriculum—a broad introduction followed by focused study—are designed after the successful model currently taught in the Graduate School of Journalism.

General Guidelines

 The minor degree consists of a minimum of 15 units (five 3-unit courses).

- All courses taken to fulfill the minor requirements must be taken for graded credit.
- 3. A minimum grade point average (GPA) of 2.0 is required for courses used to fulfill the minor requirements.
- All minor requirements must be completed prior to the last day of finals during the semester in which you plan to graduate.
- 5. The minor is open to enrollment for all Berkeley students.
- No more than one upper division course may be used to simultaneously fulfill requirements for a student's major and minor programs.

Required Courses

JOURN 100	Foundations of News Gathering	3
JOURN 110	Introduction to Multimedia	3
Electives (Cho	ose Three)	
JOURN 111	Social Media and Journalism	3
JOURN 115	Advanced Multimedia	3
JOURN 120	Investigative Reporting	3
JOURN 122	The Future of Visual Storytelling	3
JOURN 124	Introduction to Data Journalism	3
JOURN 130	Specialty Reporting	3
JOURN 134	International Reporting	3

Expand all course descriptions [+]Collapse all course descriptions [-]

JOURN 24 Freshman Seminars 1 Unit

Terms offered: Fall 2022, Spring 2022, Fall 2021

The Berkeley Seminar Program has been designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small-seminar setting. Berkeley Seminars are offered in all campus departments, and topics vary from department to department and semester to semester.

Freshman Seminars: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Freshman Seminars: Read Less [-]

JOURN 39 Freshman/Sophomore Seminar 1.5 - 2 Units

Terms offered: Prior to 2007

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Freshman/Sophomore Seminar: Read More [+]

Rules & Requirements

Prerequisites: Priority given to freshmen and sophomores

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1.5-2 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final Exam To be decided by the instructor when the class is offered.

Freshman/Sophomore Seminar: Read Less [-]

JOURN 39H Freshman/Sophomore Seminar 1.5 - 4 Units

Terms offered: Fall 2009, Spring 2009, Fall 2008

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Freshman/Sophomore Seminar: Read More [+]

Rules & Requirements

Prerequisites: Priority given to freshmen and sophomores

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Freshman/Sophomore Seminar: Read Less [-]

JOURN 39J Freshman/Sophomore Seminar 1.5 - 4 Units

Terms offered: Spring 2009

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Freshman/Sophomore Seminar: Read More [+]

Rules & Requirements

Prerequisites: Priority given to freshmen and sophomores

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Freshman/Sophomore Seminar: Read Less [-]

JOURN 39K Freshman/Sophomore Seminar 1.5 - 4 Units

Terms offered: Spring 2013, Fall 2012

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Freshman/Sophomore Seminar: Read More [+]

Rules & Requirements

Prerequisites: Priority given to freshmen and sophomores

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

Freshman/Sophomore Seminar: Read Less [-]

JOURN 98 Directed Group Study in Journalism 1 - 4 Units

Terms offered: Spring 2020, Fall 2019, Spring 2019 Directed Group Study in Journalism: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per

week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final

exam not required.

Directed Group Study in Journalism: Read Less [-]

JOURN 100 Foundations of News Gathering 3 Units

Terms offered: Fall 2022, Summer 2022 First 6 Week Session, Summer 2022 Second 6 Week Session

Survey of journalistic principles and practices, and study and practice of methods of gathering, writing, and editing news.

Foundations of News Gathering: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructors: Drummond, Thigpen

Foundations of News Gathering: Read Less [-]

JOURN 102AC The Wire: When Journalism Meets Drama 3 Units

Terms offered: Spring 2012, Fall 2011

The goal of the class is to make students aware of how the issues of crime, policing, and identity are framed and mediated through television, as well as through conventional journalism. The class will explore the relationship between real crime, popular fiction, and television, specifically The Wire.

The Wire: When Journalism Meets Drama: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Drummond

The Wire: When Journalism Meets Drama: Read Less [-]

JOURN C103 Edible Education: Telling Stories About Food and Agriculture 2 Units

Terms offered: Fall 2012

As the costs of our industrialized food system become impossible to ignore, a national debate over the future of food and farming has begun. Telling stories about where food comes from, how it is produced (and might be produced differently) plays a critical role in bringing attention to the issues and shifting politics. Each week a prominent figure in this debate explores what can be done to make the food system healthier more equitable, more sustainable, and the role of storytelling in the process.

Edible Education: Telling Stories About Food and Agriculture: Read More

[+]

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final

exam not required.

Instructor: Pollan

Also listed as: L & S C103

Edible Education: Telling Stories About Food and Agriculture: Read Less

[-]

JOURN 110 Introduction to Multimedia 3 Units

Terms offered: Summer 2022 First 6 Week Session, Summer 2022 Second 6 Week Session, Spring 2022

What's it like to tell stories using a variety of different media? Competence in the use of new journalistic tools and the skill to shape content for rapidly changing formats are both essential for any communicator in the 21st century. This intensive introductory course is designed to teach foundational skills for students who have minimal or no experience in creating multimedia news packages. Using lectures, readings, discussions, guest speakers, and field work, we will guide students through an exploration of the elements and forms of multimedia storytelling, and teach skills in news gathering and story production. This course is part of minor program which has been approved for fall & spring.

Introduction to Multimedia: Read More [+]

Objectives & Outcomes

Course Objectives: The objective of this course is to train all students—regardless of their planned area of specialty—to grasp foundational skills that can be applied to many types of storytelling. Using case studies, instructors will teach how to – and how not to – create, organize and manage multimedia news packages. Students will learn how to choose which medium — video, audio, still photography, graphics or text — best suits the particular type of story or different segments of a story they wish to tell. By the conclusion of the course students will have developed basic skills in choosing stories, shooting video and still images with a mobile device, writing accompanying text, and editing their work by laptop into finished story packages. Importantly, students will also learn how to apply core journalistic values and the highest professional standards to their multimedia work. A required final project presents students the opportunity to apply their learning.

Rules & Requirements

Prerequisites: None

Hours & Format

Fall and/or spring: 15 weeks - 6 hours of seminar per week

Summer: 6 weeks - 7.5 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Hernandez

Introduction to Multimedia: Read Less [-]

JOURN 111 Social Media and Journalism 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Summer 2021 Second 6 Week Session, Summer 2020 Second 6 Week Session
This course will help students understand and use social media for journalistic purposes by focusing on how social networks, conversational media, and associated digital media tools and platforms can be used to develop new sources, establish beneficial conversations with end users, identify story ideas and trends, aggregate and curate the work of other journalists, and promote their own work.

Social Media and Journalism: Read More [+]

Objectives & Outcomes

Course Objectives: The objective of this course is to help students -regardless of their area of specialization – know to use social media for
cu ration, conversation, and audience-building. By the conclusion of the
course students will have developed knowledge of and familiarity with the
key players in the fast-changing landscape of social media, and will know
how to best use social media such as Instagram, Facebook, Twitter and
others to transmit stories online and move viewers to action. Students
will be alert and adaptable to new forms of social media as they emerge.
They will also develop skills in the interactive nature of news in sociallybased media, where readers continually interact with authors and where
reader reactions serve as an iterative element in the evolution of content.

Rules & Requirements

Prerequisites: A student must complete the following classes to be eligible for enrollment in J111 Social Media and Journalism: J110 Introduction to Multimedia J100 Principles of Journalistic Writing

Hours & Format

Summer: 6 weeks - 7.5 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Rue

Social Media and Journalism: Read Less [-]

JOURN 112 Intro to Podcasting 3 Units

Terms offered: Summer 2022 Second 6 Week Session In the last decade podcasts have amassed national audiences, led by expert story-telling in productions such as Code Switch, Serial, and This American Life. This course, designed as a seminar and workshop, will give students a broad view of how podcasts arose on the landscape of professional journalism, help students understand audio news production and develop or sharpen their skills at it, and enable them to build a foundation of skills that will allow them to produce their own podcasts or to enter the fast-growing field of podcast journalism.

Intro to Podcasting: Read More [+]

Objectives & Outcomes

Course Objectives: Students will learn the fundamental techniques for creating, developing, pitching and producing creative and compelling podcasts that adhere to journalistic standards of truth and fairness. Students will leave with a practical understanding of podcast journalism that prepares them to launch their own podcast or qualifies them for employment at a podcast production company.

Hours & Format

Summer: 6 weeks - 7.5 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Thigpen

Intro to Podcasting: Read Less [-]

JOURN 115 Advanced Multimedia 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Summer 2021 Second 6 Week Session, Summer 2020 Second 6 Week Session Instruction begins with how to properly approach a news assignment for online publication, specifically how to choose which media form—video, audio, photo, graphics, or text—is best for telling a particular type of story or different segments of a story. Students also learn how to storyboard an assignment by breaking a story up into its component parts and deciding which type of media should be used to tell each part of the story. This is followed by lessons on capturing video, photo, and audio; proper technique; and working with news subjects.

Course credit for summer minor.

Advanced Multimedia: Read More [+]

Objectives & Outcomes

Course Objectives: Students will learn software used to edit photos, video, photo slideshows, and audio, followed by instruction on mapping software and online data visualization programs. Some basic HTML instruction will be included.

Recording hardware for this class will rely on student-owned devices—smartphones such as the iPhone or Android. Professional equipment, like a professional audio recorder or DSLR camera that students might already own, is allowed for use in this course. However, lessons will be geared toward capturing multimedia using smartphones. A laptop, or access to a computer in order to perform editing, is required.

Rules & Requirements

Prerequisites: Enrollment in this course is restricted to students who have already taken and passed the fundamentals courses J110 Introduction to Multimedia and Principles of Journalistic Reporting & Writing (J100 Reporting the News)

Hours & Format

Summer: 6 weeks - 7.5 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Rue

Advanced Multimedia: Read Less [-]

JOURN 120 Investigative Reporting 3 Units

Terms offered: Summer 2021 Second 6 Week Session, Summer 2020 Second 6 Week Session, Summer 2019 Second 6 Week Session Whether it's matters of national security, public health, or official misconduct, investigative reporters play a crucial role in a democracy, exposing events, realities and conditions that powerful interests would often prefer kept quiet. The best investigative reporters – such as Woodward and Bernstein, Seymour Hersh, Glenn Greenwald – change the way we think about the world.

The objective of this course is to teach students the basic tools and techniques used in investigative reporting. We will explore how to find sources, obtain public records, and craft enterprising reporting into compelling stories that go behind the curtain of public life.

Course credit for summer minor.

Investigative Reporting: Read More [+]

Objectives & Outcomes

Course Objectives: A goal of this course is to make students proficient in how professional journalists investigate leads, use public records and other sources to unearth or verify buried or hidden information. By the end of this course students will be able to apply investigative techniques to everyday reporting as well as produce one longer form investigative piece. Students will also have built a working knowledge of the different types of public records available, including understanding how to access court and corporate documents, and be comfortable in using these documents as they report stories. Students whose work is of the highest standards may be published in the Daily Cal or another outlet.

Hours & Format

Summer: 6 weeks - 7.5 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Thigpen

Investigative Reporting: Read Less [-]

JOURN 122 The Future of Visual Storytelling 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Summer 2021 Second 6 Week Session, Summer 2020 Second 6 Week Session
This course explores digital narratives as they are designed, produced, and consumed in various electronic and "virtual" formats. Given this is a broad and expansive discipline that will continue to spawn new immersive experiences, stories and technologies, the course will lay the foundation for understanding new transmedia environments and explore best practices for creating non-fiction narratives on emerging platforms.
We will explore narratives in 360, Virtual Reality, Augmented Reality, and mobile

Course credit for summer minor.

The Future of Visual Storytelling: Read More [+]

Hours & Format

Summer: 6 weeks - 7.5 hours of lecture per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternate method of final assessment during regularly scheduled final exam group (e.g., presentation, final project, etc.).

Instructor: Hernandez

The Future of Visual Storytelling: Read Less [-]

JOURN 124 Introduction to Data Journalism 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Summer 2021 Second 6 Week Session, Summer 2020 Second 6 Week Session
This course introduces students to the workflows and techniques for journalistic reporting using data. In many traditional forms of journalism, reporters rely mostly on interviews and anecdotes to create stories. But in a world filled with misinformation—where the very foundations of trust have been shaken—audiences expect more. This course will cover using data for both research and reporting, as well as communicating stories with data. Data has become ubiquitous and accessible in recent years. Data analysis skills are now part of the standard repertoire for many journalists. By its nature, data is based on evidence and observations. But like all evidence, it needs context and interpretation.

Course credit for the summer minor.

Introduction to Data Journalism: Read More [+]

Hours & Format

Summer: 6 weeks - 7.5 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Rue

Introduction to Data Journalism: Read Less [-]

JOURN 130 Specialty Reporting 3 Units

Terms offered: Fall 2022, Summer 2021 Second 6 Week Session, Spring 2021

Specialty Reporting teaches background and techniques for students interested in deepening their journalism skills as well as their subject-matter expertise through intensive coverage of a single topical area. The course will explore the concepts and methods used by specialists to conduct inquiries that go beyond general reporting-- including source development, finding and interpreting key documents, understanding important issues and how key institutions function.

Specialty Reporting: Read More [+]

Objectives & Outcomes

Course Objectives: Students will learn about key global environmental issues, devise effective strategies for reporting on them, and develop skill at writing stories that have greater depth and complexity than in introductory journalism.

Rules & Requirements

Prerequisites: Minor and certificate candidates must take JOURN100 and JOURN110 before taking this elective. Journalism.berkeley.edu/special-programs/summer-minor

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Summer: 6 weeks - 7.5 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Chase

Specialty Reporting: Read Less [-]

JOURN 134 International Reporting 3 Units

Terms offered: Summer 2022 Second 6 Week Session, Summer 2021 Second 6 Week Session, Summer 2020 Second 6 Week Session In a globalizing world local stories often become international ones. From politics to financial markets to terrorism and climate change, a more closely connected world often means critical issues do not stay put. Events in Russia, China, Iran and Germany regularly occupy headlines in the U.S. Journalists covering foreign lands now face new levels of complexity in their work. Competent reporting demands a high levels of skill: a broad awareness of global trends, an ability to develop reliable sources, and a keen understanding of how different communities respond to the forces affecting their lives.

Course credit for summer minor.

International Reporting: Read More [+]

Objectives & Outcomes

Course Objectives: International Journalism will build an appreciation of the importance of news originating outside the U.S., as well as increase a student's skill at critical analysis of foreign news. Students will learn where to find data about foreign entities, how to find and interview sources, and how to write in an authoritative, newsworthy style. By the end of the course students should have a working knowledge of the key issues in one country or region, be able to discuss them in class, and be able to write a well-informed long form news story using their sources and data. Students will also have increased knowledge about customs and cultural sensitivities in the region of the world that is their focus.

Rules & Requirements

Prerequisites: J100 Introduction to News writing is preferred; students who have not taken J100 should notify the instructor

Hours & Format

Summer: 6 weeks - 7.5 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Thigpen

International Reporting: Read Less [-]

JOURN 136 Media Ethics 3 Units

Terms offered: Spring 2022

The course will offer a grounding in moral reasoning and an introduction to professional ethics as both moral doctrine and as an evolving response to changing social and industrial conditions in the media industries

Media Ethics: Read More [+]

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Wasserman

Media Ethics: Read Less [-]

JOURN 197 Field Study in Journalism 1 - 2 Units

Terms offered: Summer 2019 8 Week Session, Spring 2017, Summer 2014 8 Week Session

Supervised experience in the practice of journalism in off-campus organizations. Individual meetings with faculty sponsor and written reports required. See Additional Information, "Field Study and Internships."

Field Study in Journalism: Read More [+]

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of fieldwork per week

Summer:

6 weeks - 1-2 hours of fieldwork per week 8 weeks - 1-2 hours of fieldwork per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Field Study in Journalism: Read Less [-]

JOURN 198 Directed Group Study in Journalism 1 - 4 Units

Terms offered: Spring 2022, Fall 2020, Spring 2020 Directed Group Study in Journalism: Read More [+]

Rules & Requirements

Prerequisites: Total grade point average of not less than 3.0 and consent of instructor

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Summer:

6 weeks - 1-4 hours of directed group study per week 8 weeks - 1-4 hours of directed group study per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Directed Group Study in Journalism: Read Less [-]

JOURN 199 Supervised Individual Study and Research 1 - 4 Units

Terms offered: Fall 2013, Fall 2011, Fall 2010 Enrollment restrictions apply; see department.

Supervised Individual Study and Research: Read More [+]

Rules & Requirements

Prerequisites: Total grade point average of not less than 3.0 and consent of instructor

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0 hours of independent study per week

Summer:

6 weeks - 1-4 hours of independent study per week 8 weeks - 1-4 hours of independent study per week

Additional Details

Subject/Course Level: Journalism/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Supervised Individual Study and Research: Read Less [-]