

# List of Changes



We're here to help!  
Get real-world support  
and guidance  
every step of the way.

[SupportAtEveryStep.com](http://SupportAtEveryStep.com)

## Computing Essentials 2021 28th Edition

Timothy O'Leary, Linda O'Leary, Daniel O'Leary

ISBN: 9781260323993 / 1260323994 / © 2021

available in



**connect**®

To increase student motivation and engagement, a focus on smartphones has been added by increasing content and providing marginal tips offering practical advice for efficient smartphone use. While the coverage of other topics has not been reduced, this change offers a gateway to demonstrate the relevance of all types of computers to their lives. Additionally, every chapter's Making IT Work for You, Privacy, Ethics, and Environment features have been carefully reevaluated, enhanced, and/or replaced. Also, every chapter's Look to the Future has been revised to show that the expected breakthroughs of tomorrow are rooted in today's advances.

## It All Starts with You >>

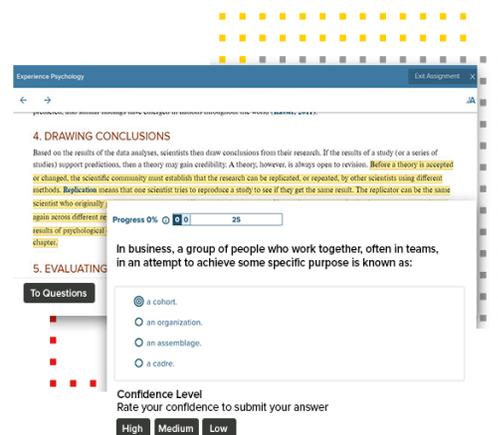
McGraw-Hill Connect® is a course management and adaptive learning solution that enhances your unique voice and teaching style. As your partner, we're committed to helping you achieve your course goals and unlock student potential. That's why we've made meaningful updates to this edition.

### New In Connect:

**SmartBook® 2.0** – Our adaptive reading experience has been made more personal, accessible, productive, and mobile.

**Instructor Test Bank** – The test bank contains over 2,200 questions categorized by level of learning (definition, concept, and application). This is the same learning scheme that is introduced in the text to provide a valuable testing and reinforcement tool.

**Homework Exercises** – Homework Exercises further reinforce learning and retention of the material through multiple choice, matching, and discussion-based questions.



Learning that Fits  
[mheducation.link/smartbook2](https://mheducation.link/smartbook2)

## Additional Value When You Upgrade

- **NEW!** Free mobile access to SmartBook 2.0 assignments and the digital textbook with the ReadAnywhere app.
- **NEW!** Remoting proctoring and browser-locking capabilities allowing for more control over the integrity of online assessments.
- **NEW!** Ability to create enhanced assignments personalized to each student's needs.
- Accessibility and student data security enhancements.
- More advanced student and class reporting capabilities.
- 99.99% platform uptime

Visit [mheducation.com/connect](https://mheducation.com/connect) for details.



## Chapter by Chapter Changes

- Chapter 1: Expanded discussion of smartphones and cell phones
- Chapter 2: Added coverage of Web 4.0.  
Expanded coverage of Twitter  
Expanded coverage of mobile browsers  
Expanded coverage of web utilities and filters  
Expanded discussion of social networks including LinkedIn and Facebook  
Expanded coverage of podcasts  
Added coverage of fake news and deepfakes
- Chapter 3: Added coverage of features including Find and Replace  
Enhanced layout of figures  
Reorganized topics to increase emphasis of video editors  
Expanded coverage of mobile apps
- Chapter 4: Added coverage of voice assist tools  
Added coverage of macOS Mojave and Dark Mode  
Added comparison of search programs for Android, iOS, Windows, and macOS  
Added comparison of storage management programs for Android, iOS, Windows, and macOS
- Chapter 5: Added comparison of backup programs for Android, iOS, Windows, and macOS  
Reorganized sequence of topics to better compare different types of system units  
Enhanced figures comparing different types of system units  
Increased coverage of coprocessors and GPU (graphics processing units)
- Chapter 6: Updated and expanded coverage of stylus, handwriting recognition software, and touch screens  
Updated features of monitors including specifics regarding dot (pixel) pitch  
Added coverage of flexible screens  
Added features of printers including connectivity  
Expanded coverage of 3D printers
- Chapter 7: Added coverage of network and hybrid drives  
Expanded coverage of SSDs (solid-state drives)  
Added coverage of Ultra HD Blu-ray (UHD BD)
- Chapter 8: Updated salary range for network administrators in Careers in IT
- Chapter 9: Expanded coverage of privacy concerns specifically related to smartphone use  
Added coverage of big data and digital footprints  
Expanded coverage of deep web and dark web  
Added comparison of viewing and deleting browser histories using Android Chrome and iOS Safari  
Expanded coverage of spyware for smartphones including Pegasus  
Added coverage of two factor authentication and two step authentication
- Chapter 11: Added coverage of NoSQL

# Affordability & Outcomes

## Affordability & Outcomes

- Flexibility! More choice. You decide.
- Multiple options at multiple price points!
- Content options: McGraw-Hill, custom, Open Learning Solutions.
- Format Options: Print, McGraw-Hill eBook, Courseware, bundles.
- Delivery Options: Inclusive Access, rental, purchase.
- 950 Inclusive Access institutional partnerships in 2019.

Visit [mheducation.link/realvalue](https://mheducation.link/realvalue) for details.



## Support At Every Step

Find all the resources you need for a successful semester in one spot: [supportateverystep.com](https://supportateverystep.com).

Faculty support is critical to the success of implementing and using digital courseware. That's why we teamed up with faculty to create a website dedicated to providing above-and-beyond support. From initial training to implementing new tools to digging into the data, we're here to help.

Let us know how we can partner with you at every step.