EVERGREEN 2024 RELEASE NOTES

- New and Updated Content -

Anderson, Nester's Microbiology: A Human Perspective

Release Overview: Addressing the need for currency in the study of microbiology, new digital resources have been added to Connect. Updates to digital content include new Virtual Lab simulations including Biochemical Testing and associated pre- and post-lab assessments, new Relevancy Module on Microbiome, new HESI Question Bank, and updated COVID 19-PPTs. Additionally, text updates reflect the need for more recent, relevant information, enhanced accessibility, and mindfully crafted content to reflect diversity among readers. Additional updates include Updated 2024 question and test banks, SmartBook questions, lecture PowerPoints and instructor materials covering relevant content in Microbiology. To receive these updates, duplicate/copy your section on or after the upcoming release date.

DIGITAL CONTENT								
	Question Bank *NEW and UPDATED assessments have been tagged in Connect for easy filtering.*	**Instructor Resources**	**Microbiology COVID-19 PPTs**	**Virtual Labs**	**Virtual Labs Assessments** *NEW and UPDATED assessments have been tagged in Connect for easy filtering.*	**Virtual Labs Pre-Lab Adaptive Assignment**	**Relevancy Modules**	**Microbiology HESI Question Bank (NEW)**
LOCATION OF UPDATED CONTENT IN CONNECT	Assignments tab > Add Assignment > Question Bank	Library tab > instructor resources	Library tab> Instructor Resources> COVID-19 PowerPoint Presentation	Assignments tab > Add Assignment > Virtual Labs	Assignments tab > Add Assignments > Question Bank > (drop down additional banks) Virtual Labs Question Bank (MHHE, Coursewide Content)	Assignments tab > Add Assignments > Adaptive Learning Assignment > Virtual Labs: Pre-Lab Foundational Knowledge	eBook narrative (secondary ebook) & Assessment piece in Assignments tab > Add Assignments > (drop down additional banks) Relevancy Modules-Microbiology (MHE, Coursewide Content)	Assignments tab > Add Assignments > Question Bank > (drop down additional banks) HESI (MHE, Coursewide Content)

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Updates Made	New and updated questions added to the question and test banks to reflect changes made to reading content. These are tagged as “New 2024” or “Updated 2024” in the question bank filter. See updates to reading content on following pages.	Updates to the lecture PPTs and Instructor’s Manual have been made based on updates to the narrative.	Updates have been made to the COVID-19 Lecture PPTs to reflect currency and changes in the field.	New virtual labs and accessibility updates will be added. See NEW filter in Virtual Lab Assignment. * Updated Resources to align with new simulations on Virtual Labs Online Learning Resource page. BioChemical Testing (Unknown ID Tests) **Released Fall 2023* - Antimicrobial Testing for Gram-Positive Cocci Identification - Blood agar hemolysis test - CAMP test - Catalase test - Citrate test - Coagulase test - Phenol red test (glucose fermentation) - Triple sugar iron (TSI) agar - Indole test - MacConkey agar (lactose fermentation) - Mannitol salt agar - Methyl red test - Voges-Proskauer test - SIM medium - Nitrate reduction test - Oxidase test - Urease test	NEW questions added to the question banks to align with new simulations released. In addition, new questions added for selected simulations missing post lab assessments. Questions are tagged as “New 2024” in the question bank filter. *See Release Notes on Virtual Labs Instructor Resource page for more details.*	NEW Learning Objectives with accompanying assessment questions and learning resources for all new simulations. In addition, new learning objectives added for selected simulations missing pre-lab assessments. *See Release Notes on Virtual Labs Instructor Resource page for more details.*	New Microbiology Module on Microbiome. New assessment items for Microbiome, questions are tagged as “New 2024” in the question bank filter.	NEW bank of 80 HESI (Health Education System) exam prep questions created, to help prepare students for a nursing program.

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GLOBAL INFORMATION FOR QUESTION BANKS	• **Note on Deleted Questions.** While we attempted to avoid deleting assessment questions so as not to disrupt existing users, at times it is unavoidable. In these cases, the deleted question will remain in your assignment if previously assigned, but is no longer supported by McGraw Hill and won't receive future updates or corrections. We have called out the specific questions that have been deleted in these release notes, but the choice to remove the question from your existing assignments is yours. • **New Accessibility Filter**. Experience a simpler way to be mindful of accessibility as you create question bank assignments. New filter options make it easy to ensure all questions in your assignment work well with screen readers; can be used with keyboard only; have accessible audio, video, and images; and more. Use the "Screen Reader/Keyboard/CC" filter to find only accessible questions and the "Screen Reader/Keyboard/CC/AD-Vids described" filter to find accessible questions that also come with text descriptions of any videos that are included.

READING/ADAPTIVE CONTENT – eBook, SmartBook, Print

LOCATION OF UPDATED CONTENT IN CONNECT	eBook on Connect home page AND Assignments tab > Add Assignment > Reading Assignment & SmartBook 2.0 **IMPORTANT:** The table of contents for this release has undergone some changes. The details are included in the table below. If you have previously assigned Reading Assignments for any of the affected chapters or sections, you may need to rename your assignments to align to the new table of contents.

Chapter	Content Changes
Global Changes	• Updated the disease statistics, vaccine recommendations, treatments, and terminology • Increased the focus on worldwide effects of infectious diseases • Aligned the descriptions of diseases that have similar symptoms or epidemiology so that comparisons can be made more easily • Emphasized that cytokine release and the inflammatory response can lead to signs and symptoms of certain diseases • Decreased the level of detail about non-specific disease treatments • Deleted the Focus on the Future boxes, often moving the information into the narrative or using it to create new Focus Your Perspective boxes • Modified the figures for increased accessibility
Chapter 1 - Humans and the Microbial World	• Added mpox to the list of emerging infectious diseases and updated the COVID-19 death statistics; updated the information about wheat blast and African swine fever; added information about the recent spread of a novel avian influenza virus (section 1.2) • Added *Thiomargarita magnifica* to Focus Your Perspective 1.1 (section 1.3)
Chapter 2 - The Molecules of Life	• Changed the name and narrowed the focus of the subsection now called *Triglycerides (Fats)* (was *Simple Lipids*) (section 2.4) • Changed the heading and narrowed the focus of the subsection now called *Phospholipids* (was *Compound Lipids*) (section 2.4) • Moved the information about *trans* fatty acids from a MicroByte into the main narrative (section 2.4) • Modified a MicroByte to emphasize the importance of artificial intelligence tools in predicting protein shapes based on DNA sequences (section 2.4)
Chapter 3 – Cells and Methods to Observe Them	• Added the terms primary active transport and secondary active transport (section 3.1) • Added the term *haploid*; expanded on the functions of storage granules and encapsulin nanocompartments (section 3.4) • Moved discussion of vesicles from section 3.5 to section 3.7 • Reorganized the discussion of eukaryotic membrane-bound organelles to separate those involved with the endomembrane system from those that are not, updating table 3.4 accordingly (section 3.7)

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	• Improved the description that distinguishes between resolving power and resolution (section 3.8) • Simplified the discussion of transmission electron microscopy sample preparation methods (section 3.8)
Chapter 4 – Dynamics of Microbial Growth	• Updated the description of alpha-hemolysis; added a Focus Your Perspective on Agar Art (section 4.6)
Chapter 5 - Control of Microbial Growth	• Added the terms *antimicrobial* and *biocide* to the list of key terms • Introduced the term *cold pasteurization* (sections 5.1 and 5.3) • Removed the description of depth filters; updated the discussion of ultraviolet radiation to include the use of UVC for ultraviolet germicidal irradiation; added the term *pascalization* to describe high pressure treatment (section 5.3)
Chapter 6 - Microbial Metabolism: Fueling Cell Growth	• Added the mention of Marjory Stephenson to the *Glimpse of History* • Defined the term *intermediates*; reworded the definition of substrate-level phosphorylation (section 6.1) • More explicitly compared the Embden-Meyerhof and Entner-Doudoroff glycolytic pathways (section 6.3) • Added the mention of Jennifer Moyle's role in developing the chemiosmotic theory; reworked the detailed description of aerobic respiration in prokaryotes (section 6.4) • Added a brief discussion of the different meanings of the term *fermentation* (section 6.5) • Reduced the coverage of chemolithotrophs, referring the reader to chapter 11 for more information (section 6.7) • Significantly revised the discussion of photosynthesis for better flow and increased understanding; added a brief description of phototrophy involving rhodopsin pigments (section 6.8)
Chapter 7 - The Blueprint of Life, from DNA to Protein	• Changed the Glimpse of History topic to tell the story of the Tsuneko Okasaki • Clarified the role of DNA helicase (section 7.2) • Changed the order of the paragraphs that introduce the components of translation so that tRNA is now described before ribosomes (section 7.3) • Modified the description of quorum sensing (section 7.5) • Revised the discussion of gene regulation so that the terms *constitutive*, *inducible*, and *repressible* are applied to genes rather enzymes (section 7.6)
Chapter 8 - Bacterial Genetics	• Replaced the term *base substitution* with *base-pair substitution*; redesigned figure 8.2 to clarify the process that leads to base-pair substitution (section 8.2) • Replaced the critical thinking question in MicroAssessment 8.3 (section 8.3) • Converted the descriptions of replica plating and Ames test into bullet lists; deleted the section on penicillin enrichment (section 8.5) • Updated and added "titles" to the bullets and the accompanying figure that describe CRISPR (section 8.11)
Chapter 9 - Biotechnology	• Added clear descriptions of the terms *in vivo* and *in vitro* (section 9.1) • Revised the discussions of gel electrophoresis and generating a recombinant DNA molecule (sections 9.1 and 9.2, respectively) • Added the mention of Nobel Prize winners Jennifer Doudna and Emmanuelle Charpentier (section 9.3) • Removed the description of RNA-seq (section 9.4) • Changed the title and focus of the section now called *Considerations of Genetic Engineering* (was *Concerns Regarding Genetic Engineering*); added a discussion of gene therapy (section 9.7)
Chapter 10 - Identifying and Classifying Microorganisms	• Added a mention of point-of-care testing (section 10.1) • Updated the description of prokaryotic nomenclature by indicating that the name of the phylum ends in the suffix *-ota*; updated table 10.1 and figure 10.1 to reflect the recent changes to bacterial phylum names (section 10.1) • Added Nextstrain to the list of programs that track genomic changes of pathogens (section 10.4)

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	• Updated figure 10.14 to reflect the recent changes to bacterial phylum names (section 10.5)
Chapter 11 - The Diversity of Bacteria and Archaea	• Revised the discussion of anoxygenic phototrophs to remove much of the overlap with the improved section 6.8, which covers photosynthesis (section 11.2) • Added the term *nuisance bloom* (section 11.3) • Added the potential use of magnetosomes for targeted drug delivery systems; added a mention of *Thiomargarita magnifica* (section 11.7) • Updated tables 11.1 through 11.3 to include the new bacterial phylum names
Chapter 12 - The Eukaryotic Members of the Microbial World	• Explained the use of the term *binary fission* to describe protozoan cell division, particularly how that division is different from the simple binary fission of prokaryotic cells; expanded the discussion of sexual life cycles of eukaryotes to include the terms *haploid-dominant*, *diploid-dominant*, and *alternation of generations* (chapter introduction) • Added the term *harmful algal bloom* (section 12.3) • Mentioned the association between the bites of certain types of ticks and the development of allergies to meats and animal products (section 12.5)
Chapter 13 – Viruses, Viroids, and Prions	• Updated the taxonomic classification of rubella virus to be under the family Matonaviridae; updated Focus Your Perspective 13.1 by including the term *nucleocytoplasmic large DNA viruses* (section 13.1) • Updated and emphasized the discussion of phage therapy by creating Focus Your Perspective 13.2, which mentions the involvement of SEA-PHAGES (Science Education Alliance Phage Hunters Advancing Genomics and Evolutionary Science) (section 13.2) • Streamlined the coverage by creating a new section (*Methods Used to Study Viruses*), which consolidates two previous sections (*Methods Used to Study Bacteriophages* and *Cultivating and Quantitating Animal Viruses*) (section 13.7)
Chapter 14 - The Innate Immune Response	• Updated the term *antimicrobial peptides (AMPs)* to *host defense peptides (HDPs)* (section 14.2) • Added information about extracellular soluble pattern recognition molecules (section 14.5) • Modified the description of phagocytosis to indicate that phagolysosome formation is part of phagosome maturation (section 14.7) • Expanded the discussion of damaging effects of inflammation (section 14.8)
Chapter 15 - The Adaptive Immune Response	• Converted the descriptions of B-cell receptors and T-cell receptors to a bullet list (15.1)
Chapter 16 - Host-Microbe Interactions	• Converted what were headings under *Beneficial Roles of the Human Microbiome* to a bullet list; added a discussion of the gut microbiome–brain connection (section 16.2) • Replaced the electron micrograph of a type III secretion system in figure 16.4 (section 16.5) • Modified figure 16.12 to emphasize the involvement of cytokines in the response to superantigens (section 16.8)
Chapter 17 - Applications of Immune Responses	• Added a discussion of mRNA vaccines, viral vector vaccines, and DNA vaccines in a new subsection, *Nucleic Acid–Based Vaccines* changed the name and expanded the focus of the subsection now called *Vaccination Uses and Benefits* (was *Importance of Vaccines*); added information about ring vaccination; added a discussion about the novel oral polio vaccine type 2 (nOPV2) (section 17.2)
Chapter 18 - Immunological Disorders	• Revised the bullet list that describes the events leading to type I hypersensitivity to more closely align with figure 18.1; simplified table 18.2, which compares the major types of hypersensitivity reactions (section 18.1) • Deleted Focus Your Perspective 18.1 (*The Fetus as an Allograft*)
Chapter 19 - Epidemiology	• Added information about surveillance case definitions, added the term *infection-fatality rate*, and rearranged the order of the other topics in the discussion (section 19.1) • Updated the information about droplet transmission and airborne transmission to reflect the insights gained from the COVID-19 pandemic (section 19.2) • Added information about the One Health approach to disease control (sections 19.3 and 19.6)

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	• Updated the information about nationally notifiable infectious diseases; added information about reportable infectious diseases: added information about the CDC's National Wastewater Surveillance System (NWSS); mentioned WHO's role of drawing attention to neglected tropical diseases (NTDs); added a Focus Your Perspective box on Bioterrorism Surveillance; moved the information on reduction and eradication of disease to section 19.6 (section 19.5) • Changed the title and expanded the scope of the section now called *Trends in Infectious Diseases* (was *Emerging Infectious Diseases*); added dengue fever to the list of diseases likely to increase as a result of climate change (section 19.6) • Moved the information about Standard Precautions into the main narrative (section 19.7)
Chapter 20 - Antimicrobial Medications	• Added mentions of the contributions of the "penicillin girls" and Dorothy Hodgkin Crowfoot to penicillin discovery and production; added the mention of the contributions of Albert Schatz and Elizabeth Bugie to the discovery of streptomycin; added the subsection *Rational Drug Design* (section 20.1) • Reorganized the discussion of protein synthesis inhibitors, separating the drugs according to the ribosomal subunit they bind; updated the discussion of antimicrobials that act against *Mycobacterium tuberculosis* (section 20.3) • Added a bullet list that describes the sources of antimicrobial resistance genes; updated the information about resistant strains of *M. tuberculosis* and *Neisseria gonorrhoeae* (section 20.5) • Expanded the section on antiviral and antifungal drugs to include recent examples (sections 20.6 and 20.7, respectively) • Added the mention of neglected tropical diseases; added an explanation of why antibacterial drugs can often be used to treat diseases caused by apicomplexan protozoa; updated the drug options listed in table 20.5 (section 20.8)
Chapter 21 - Respiratory System Infections	• Reorganized the anatomy/physiology descriptions to emphasize characteristics in common between the upper respiratory tract and the lower respiratory tract (section 21.1) • Reorganized the discussion of tuberculosis treatment, using a bullet list to emphasize the two-phase treatment approach (section 21.4) • Substantially revised and updated the influenza coverage; moved the coverage of COVID-19, SARS, and MERS forward to increase the emphasis; updated the coverage of COVID-19 to include emerging variants, new treatments, and vaccines; added information about the new respiratory syncytial virus (RSV) vaccines (section 21.5)
Chapter 22 - Skin Infections	• Added a discussion of acne as an inflammatory disease of the pilosebaceous unit (sebaceous gland and associated arrector pili), a term now introduced in figure 22.1 (section 22.2) • Added a new Focus Your Perspective 22.1 on the mpox outbreak (section 22.3)
Chapter 23 - Wound Infections	• Expanded the discussion of gas gangrene to include two forms: traumatic and spontaneous (section 23.3); revised the discussion of bacterial infections of bite wounds (section 23.4)
Chapter 24 - Digestive System Infections	• Changed the headings and modified the coverage of the periodontal disease descriptions to reflect updates in terminology: *Periodontal Disease* is now *Dental Plaque-Induced Periodontal Diseases*, and *Acute Ulcerative Gingivitis* is now *Necrotizing Periodontal Diseases* (section 24.2) • Revised the signs and symptoms discussion of oral herpes to emphasize the differences between the initial infection and recurrences (section 24.3) • Rearranged some information in the disease discussions to emphasize similarities among the diseases; added information on XDR *Salmonella Typhi* as well as the new typhoid conjugate vaccine used in countries where typhoid is endemic (section 24.4) • Added CDC's 2023 recommendation for hepatitis B screening; added the 2023 discovery that HCV uses flavin adenine dinucleotide (FAD) as 5' cap on its RNA thus preventing its genome from being recognized by pattern recognition receptors in infected cells; moved the graph that compares the incidence of acute hepatitis A, B, and C to the end of the hepatitis coverage (section 24.6)

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Chapter 25 - Cardiovascular and Lymphatic System Infections	• Changed the chapter title to emphasize the separate components of the cardiovascular and lymphatic systems; increased the emphasis on the terms *cytokine storm* and *sepsis* by introducing them in the chapter introduction • Reorganized the anatomy/physiology descriptions to emphasize the separate components of the cardiovascular and lymphatic systems (section 25.1) • Moved the description of bacterial sepsis forward to increase the emphasis, explained that sepsis can result from any systemic microbial infection (bacterial, viral, or fungal), and revised the bacterial sepsis pathogenesis discussion to include a bullet list; revised the Lyme disease epidemiology discussion, using a bullet format to describe and illustrate the *Ixodes scapularis* life cycle; converted the brucellosis "disease person" table to a standard table (section 25.2) • Mentioned that viral infections can lead to sepsis; rearranged and aligned the coverage of the arboviral diseases (dengue and severe dengue, chikungunya, Zika virus disease, and yellow fever) to emphasize the similarities; added information about the new dengue vaccine used in countries where dengue is endemic (section 25.3) • Simplified the description and the illustration of the malaria life cycle, and also added information about the new malaria vaccines; added a section on leishmaniasis (section 25.4)
Chapter 26 - Nervous System Infections	• Simplified the anatomy/physiology discussion (section 26.1) • Updated the discussion of circulating vaccine-derived poliovirus strains (cVDPV) (section 26.3) • Added *Mycobacterium lepromatosis* as another causative agent of leprosy; added descriptions of two additional forms of botulism: adult intestinal toxemia botulism and iatrogenic botulism; added mention that certain strains of *C. butyricum* and *C. baratii* produce botulinum toxin (section 26.7)
Chapter 27 - Genitourinary Tract Infections	• Added a description of how glycoprotein in the urine protects against urinary tract infections (section 27.2) • Modified the coverage of leptospirosis to focus on mild versus severe disease symptoms (section 27.2) • Distinguished between the terms *sexually transmitted infection (STI)* and *sexually transmitted disease (STD)* in the Focus on a Disease box; increased the emphasis on the importance of pelvic inflammatory disease (PID) (section 27.4) • Moved the coverage of human papilloma STIs forward; substantially revised the HIV/AIDS coverage and, as part of that, included an updated replication cycle figure and mention of the new capsid inhibitor used for treatment (section 27.5).
Chapter 28 - Microbial Ecology	• Introduced the term harmful algal bloom (section 28.3)
Chapter 29 - Environmental Microbiology: Treatment of Water, Wastes, and Polluted Habitats	• Modified the definition of wastewater, and added the definition of sewage; added the terms *nuisance bloom* and *harmful algal bloom* (section 29.1)
Chapter 30 - Food Microbiology	• Modified the description of FoodNet (section 30.4)

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EVERGREEN SUMMER 2023 RELEASE NOTES

OVERVIEW of New and Updated Content

Anderson/ Nester's Microbiology: A Human Perspective

CONTENT TYPE	Videos	Virtual Labs	Virtual Labs Assessments	Relevancy Modules	Instructor Resources
DESCRIPTION	Recordings that walk students through key concepts of the course and/or apply the concepts to actual events. Include assessments.	Lab simulations delivered online as lab replacements, preparation for in-person labs, or make-up labs.	Bank of various question types written to assess learning objectives aligned with Virtual Lab Simulations.	Modules demonstrating connections between biological content and topics that are of an interest to society; features videos, content overviews, and application of concepts. Includes assessments.	Materials provided to help instructors with in-class instruction and with integrating various assessment/activity types into their assignments.
LOCATION OF CONTENT IN CONNECT	Assignments tab > Add Assignments > Question Bank > appropriate chapter In addition, videos featured in ebook, learning resources, and Instructor's Resources.	Assignments tab > Add Assignments > Virtual Labs	Assignments tab > Add Assignments > Question Bank > (drop down additional banks) Virtual Labs Question Bank (MHHE, Coursewide Content)	eBook narrative (secondary ebook) & Assignments tab > Add Assignments > (drop down additional banks) Relevancy Modules-Microbiology	Library tab > instructor resources
OVERVIEW OF CONTENT CHANGES COMING IN SUMMER 2023	New videos = 15 featuring topics on Antibiotic Resistance, PCR Test, Drug Resistance. Updated videos = 15 existing animations to be current.	New virtual labs and accessibility updates will be added. See NEW filter in Virtual Lab Assignment. ** Updated Resources to align with new simulations- Virtual Labs Online Learning Resource page.*	New assessment questions aligned with new simulations, updated tagging to existing content, and accessibility updates.	New Microbiology Module and assessment items- filtered by 2023 NEW Topic: Immunotherapy	Video Captioned animations will feature new and updated animation files.

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GENERAL NOTES	
Accessibility	McGraw Hill is committed to aligning our digital solutions to WCAG AA standards. Our Voluntary Product Accessibility Templates (VPATs) are available upon request. Any additional questions related to the accessibility of a product can be directed to your Learning Technology Representative, or you may contact us at accessibility@mheducation.com
Implementation and Training Support	Your dedicated McGraw Hill Customer Success Teams can help you update your course and assignments and set policies. Need help with reports or adjusting your course to improve outcomes? No problem, they can help with that too! Have your rep introduce you to your Customer Success Representative or use the link below to schedule your personal 1-to-1 Course Consultation. https://mheimplementationteam2.as.me/schedule.php
Tech Support	Don't become tech support. Ask students to call McGraw Hill's CXG support team at 1-800-331-5094 or contact us by visiting http://mpss.mhhe.com/contact.php. They should only come to you with a CXG ticket # in hand so you may follow up. Always make assignments due during tech support hours so students are always able to get their issues resolved before the due date.
LMS Integration	We support LTI-compliant LMSes with Single Sign-On, Deep Linking, and Grade Syncing for the following LMS systems: Blackboard, Brightspace, Canvas, Moodle, Sakai. https://www.mheducation.com/highered/lms-integration.html
Connect Support Tools and Best Practices	Assign a variety of Connect assignments to your students and make their performance part of their final course grade (minimum of 10–15% to encourage student compliance). Visit this link below to see additional student engagement tips. https://www.mheducation.com/highered/support/connect.html
New Connect Updates	A new, streamlined instructor experience is available in Connect. It includes the ability to add additional instructors (and other roles!) to any section, an updated section dashboard with new data visualization, and mobile optimization, with automatic resizing and redistribution of screen space for tablets and smartphones. This experience continues to be improved based on your feedback so let us know how we're doing! Click here to see the most recent updates: https://www.mheducation.com/highered/connect/new-releases.html
Connect Polling Tool	Engage students with the Connect Polling tool, which allows you to discover where your students are in real time. Help them create connections with your course content while gaining valuable insight during lecture, then leverage polling data to deliver personalized instruction when and where it is needed most.
Writing Assignments	Help students improve their conceptual understanding and written communication skills with Writing Assignments. Integrate writing skill development into your course with ease and help your students gain the critical writing skills they need for success now and beyond. Assign, monitor, mark, and provide feedback all in one place. All Connect courses now have Writing Assignments with peer review, originality checker, and grammar checker.* *Engineering, music, and world languages will not have originality or grammar checker due to special characters.

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