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Thank you to these Texas educators who contributed to the development of our resources!

Reviewers: Teaching



Irma Siebert, Tomball Memorial High School, Tomball



State University (now Texas A&M at Commerce).

Coauthor Michelle McCoy is an FCS teacher at Hendrickson High School in Pflugerville. Michelle has served as a board member, secretary, vicepresident, and president of the Family and Consumer Sciences Teachers Association of Texas (FCSTAT) and as a board member, secretary, and chairperson for the Texas Career and Technology Council. She writes curriculum for her district as well as for the Texas Education Agency CTE state curriculum initiative. Twice she has received the FCSTAT Region V Teacher of the Year Award and won the FCSTAT State Teacher of the Year award.



Coauthor Susan J. Hall is Deputy Dean of the College of Health Sciences at the University of Delaware. She earned a master's degree from Texas Woman's University and a Ph.D. from Washington State University.



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Coauthor Linda Stanhope taught Health Science for the Amarillo ISD for 24 years. She works with Health Science Technology instructors in Texas as a new-teacher training specialist. Stanhope works with Texas HOSA on their competitive event team. She earned the Health Science Lifetime Distinguished Teacher Award and Texas Health Occupations Teacher of the Year.

Coauthor Kimberly Turnbull is a Health Science Instructor and the Nurse Aide Training Competency Evaluation Program (NATCEP) Director for Abilene ISD. She won the Texas Outstanding Teacher in Community Service Award from ACTE, Teacher Tribute Awards from Abilene High School and Holland Medical High School, and Abilene Education Foundation Science Teacher of the Year award.

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Reviewers:

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Reviewers:



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Brady Gibson, Midway ISD, Waco

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ion: Teaching Qualities







Exploring Drafting

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Reviewers:

Megan Johnson-Burns, Skyline High School, Dallas Ann Pogue, South Grand Prairie High School, Grand Prairie Claudine Terry, Allen High School, Allen Whitney Weaver, Deer Park High School, South Deer Park

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Reviewers:

Luis M. Avila, Memorial High School, McAllen Jeffrey Cunningham, University High School, Waco Adrienne Emerson, Greenville ISD, Greenville William Evans, Martin High School, Arlington Ghada Homoud, Brooks Academy of Science and Engineering, San Antonio Patty McGaughey, Frenship High School, Wolfforth Audrea Moyers, McCallum High School, Austin Chris Patterson, Frisco ISD CTE Center, Frisco Brandon Searcey, James Martin High School/Arlington ISD, Arlington Daniel Sweet, John Jay Science and Engineering Academy/ Northside ISD, San Antonio Ronald Tipton, South San Antonio High School, San Antonio Shawn Warden, New Diana High School, Diana David D. Worley, DTE, Haltom High School, Haltom City Mike Yakubovsky, Coppell High School, Coppell Colin Yeilding, Cleburne High School, Cleburne

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- 5. The Early History of Education in America
- 6. The Modern History of Education in America
- 7. Schools and Society
- 8. Understanding Human Development
- 9. The Preschool Years: Growth and Development
- 10. Middle Childhood: Growth and Development
- 11. The Teen Years: Growth and Development
- 12. Understanding and Teaching **Diverse Learners**
- 13. Planning for Instruction
- 14. Instructional Methods
- 15. Technology for Instruction
- 16. The Role of Assessment
- 17. Classroom Management
- 18. The Challenges of Teaching

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Teaching ©2024 by Sharleen L. Kato, Ed.D.

Introduce high school students to the role and duties of a teacher, from planning to classroom management

Teaching is the only comprehensive textbook specifically written for high school students planning to pursue a career in teaching. A friendly writing style and approach introduces students to the role and duties of a teacher, including planning, instructional methods, assessment, and classroom management. Topics include types of learners as well as how humans develop physically, intellectually, and socioemotionally. In addition, instructional methods necessary to address these factors are covered. A comprehensive overview about growth and development during the preschool years, middle childhood, and teen years is presented. This information sheds light on the importance of understanding human development in relation to the learner. This edition includes updated references to how COVID-19 has changed the profession over the past several years. By studying this text, teachers of tomorrow explore the world of education and investigate teaching as a profession.

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- Common challenges faced in the teaching profession prepare students for the reality of a teaching career.
- Journaling Activities provide opportunities to practice writing and communication skills as students reflect on their experiences.
- Perspectives on Teaching are longer stories of teacher experiences with reflective narrative followed by a chance for students to analyze the character's response.





Child Development: Early Stages Through Adolescence ©2024

by Celia Anita Decker, Ed.D., Julia McClannon, and Michelle McCoy

Explore positive ways to care for children by understanding their physical, intellectual, social, and emotional development

Child Development: Early Stages Through Adolescence explores the many stages of growth and development that children experience from the prenatal stage through adolescence. Through an in-depth, comprehensive study of children's physical, intellectual, social, and emotional development, students will learn positive ways to care for children and meet their needs during these formative early years. Career information is presented about various child-related occupations, identifying the necessary skills, onthe-job duties, and education requirements needed for achieving success in a child-related career. Developmental Milestone and Developmental Delay charts explain the different milestones children accomplish by certain ages to reinforce what to expect developmentally at each stage of the child's life. Brain studies, 21st-century learning, and mental health risk factors are explored in depth to present current research findings in child development.

- Engaging activities and an approachable writing style bring difficult concepts like brain development research and discussion of key theorists to a high school reading level.
- · Updated to reflect today's families with an emphasis on diversity and inclusion plus content on the effect of technology and childhood trauma on the developing brain, guidance for children, family-life challenges, and caring for children with diverse needs.
- End-of-Chapter Activities offer critical-thinking and cross-curricular exercises as well as opportunities to observe child development concepts in action.



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Education and Training

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Unit 1: Children in Today's World

- 1. Learning About Children
- 2. New Directions in Learning
- 3. Families Today
- 4. Preparing for Parenting

Unit 2: Pregnancy and Childbirth

- 5. Pregnancy
- 6. Special Circumstances of Pregnancy
- 7. Childbirth

Unit 3: Infancy

- 8. Physical Development in the First Twelve Months
- 9. Intellectual Development in the First Twelve Months
- 10. Social-Emotional Development in the First **Twelve Months**

Unit 4: The Toddler Years

- 11. Physical Development of Toddlers
- 12. Intellectual Development of Toddlers
- 13. Social-Emotional Development of Toddlers

Unit 5: The Preschool Years

- 14. Physical Development of Preschoolers
- 15. Intellectual Development of Preschoolers
- 16. Social-Emotional Development of Preschoolers

Unit 6: The School-Age and Adolescent Years

- 17. Physical Development of School-Age Children and Adolescents
- 18. Intellectual Development of School-Age Children and Adolescents
- 19. Social-Emotional Development of School-Age Children and Adolescents
- Unit 7: Guiding and Caring for Children
- 20. Encouraging Children's Play Experiences
- 21. Protecting Children's Physical Health and Safety
- 22. Handling Family-Life Challenges
- 23. Meeting Children's Special Needs
- 24. Providing Early Childhood Education in Group Settings
- 25. Preparing for a Child-Related Career

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Contents

Unit 1: Foundations of Human Development

- 1. An Introduction to Lifespan Development
- 2. How and Why People Develop and Learn
- 3. Family Trends Today
- 4. Pregnancy and Birth

Unit 2: Stages of Human Growth and Development

- 5. Infancy: Newborn to Age 1
- 6. Toddlerhood: Ages 1 through 2
- 7. Early Childhood: Ages 3 through 5
- 8. Middle Childhood: Ages 6 through 10
- 9. Adolescence: Ages 11 through 19
- 10. Early Adulthood: Ages 20 through 39
- 11. Middle Adulthood: Ages 40 through 65
- 12. Older Adulthood: Ages 66 Plus

Unit 3: Strategies Promoting Lifetime Human Development

- 13. Child and Adult Care Resources for Families
- 14. Providing for Individual and Family Needs

Unit 4: Career Preparation and Opportunities

- 15. Preparing for Careers
- 16. Career Paths Education and Training
- 17. Career Paths in Human Services

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Lifespan Development ©2024

by Sharleen L. Kato, Ed.D.

Explores the physical, cognitive, social, and emotional stages of development



Lifespan Development is designed to help your students understand human growth and development across the lifespan. The contents of this text show that even though not all people are alike, they do go through similar stages of development. Young children learn to walk, talk, spell, jump, and tell jokes. Teens learn to become more independent. Adults take on more responsibilities for themselves and others. Throughout the lifespan, people continue to develop and change physically, cognitively, socially, and emotionally. The developmental theories of Erikson, Piaget, Vygotsky, and Kohlberg are highlighted. The text also includes strategies that promote lifespan health and wellness.

- A unit is dedicated to career paths in education and training and human services.
- Special features throughout the text address cultural diversity, health, and safety.
- Case Studies are included in every chapter to help students relate classroom learning to the real world.



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Introduction to Anatomy & Physiology ©2024

by Susan J. Hall, Michelle A. Provost-Craig, and William C. Rose

Uses an age-appropriate writing style and multiple study aids to make complex subjects easy to understand

Introduction to Anatomy & Physiology covers all body systems using a studentfriendly writing style that makes complex subjects easier to understand. Written specifically for the high school market, the chapters in this textbook are divided into lessons, providing content in a manageable format for the student. Each lesson is further divided into subtopics, with questions at the end of each subtopic to help students gauge their understanding of the material. Clinical case studies and real-world applications enhance student interest and involvement. An outstanding illustration program includes anatomically exact drawings with great use of color, simplified labeling, and teaching captions. Strong pedagogy includes study aids, such as learning objectives, lesson summaries, and extensive assessment opportunities, that increase students' ability to succeed in this challenging course. This edition has been updated to include content on the impact of COVID-19, artificial tissues, muscle disorders, the sense of touch, and Rh factor to the universal donor and universal recipient definitions.

- The text is written specifically for high school students, including the content needed for a science or health science program. Easy-to-read tables about diseases, disorders, and trauma provide important information in a short amount of time in a format that is easy to study.
- New HOSA-Future Health Professionals activities encourage student and instructor involvement in HOSA and help prepare students for competitive events.
- This title is correlated to the industry-recognized credentials offered by Precision Exams, by YouScience and NCHSE National Health Science Standards for Human Structure. Function and Disease A and B exams.



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Course: Anatomy & Physiology











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- 4. The Skeletal System
- 5. The Muscular System
- 6. The Nervous System
- 7. The Special Senses
- 8. The Endocrine System
- 9. The Respiratory System
- 10. The Blood
- 11. The Cardiovascular System
- 12. The Lymphatic and Immune Systems
- 13. Nutrition and the Digestive System
- 14. The Urinary System
- 15. The Male and Female Reproductive Systems

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Contents

- 1. Basics of Medical Terminology
- 2. Basics of the Body
- 3. The Integumentary System
- 4. The Skeletal System
- 5. The Muscular System
- 6. The Cardiovascular System
- 7. The Lymphatic and Immune Systems
- 8. The Respiratory System
- 9. The Digestive System
- 10. The Nervous System and Mental Health
- 11. The Special Senses
- 12. The Endocrine System
- 13. The Urinary System
- 14. The Male Reproductive System
- 15. The Female Reproductive System

Appendix A: Medical Word Parts

Appendix B: Medical Abbreviations and Acronyms

Glossary/Index

PLUS HOSA Event Prep!

Introduction to Medical Terminology ©2023

by Linda Stanhope and Kimberly Turnbull

Workplace Skills offer hands-on, industry procedures, while **HOSA Competitive Events integrate real-world practice**

Designed with future health science professionals in mind, Introduction to Medical Terminology focuses on the essentials of medical terminology, foundational concepts of human anatomy and physiology, and the common medical terms related to the body systems. These important topics help prepare high school students to succeed in future coursework and build confidence to enter a fastgrowing career field. With a student-friendly approach, chapter content is logically organized by introducing relevant medical word parts, followed by an anatomy and physiology overview, coverage of applicable diseases and conditions, diagnostic procedures, surgical and therapeutic treatments, and drug therapies. The text is supported by colorful, detailed art developed by expert medical illustrators. The second edition includes updated content to reflect advances in medical technology, treatments, and mental health; gender-neutral language; and information about COVID-19, including its pathology, spread, and impact on health.

- Medical terms are presented in context and dissected into relevant word parts to help beginning students understand the connection between individual wordpart meanings and the definitions of terms as a whole.
- Cumulative Reviews provide additional reinforcement and check-ins every few chapters to encourage retained knowledge.
- Classroom-proven activities like Patient Medical Record activities and NEW Workplace Skills Labs provide students with valuable critical-thinking opportunities and help them apply chapter content to HOSA competitive events and future health science careers.
- Correlated to the Precision Exams Medical Terminology industry-recognized credential, helping students obtain certificates that increase their employability.



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Health Science **Concepts and Skills** ©2024

by Jacquelyn Rhine Marshall and Sue Roe

Second-level health science text with an emphasis on additional hands-on procedures

Health Science Concepts and Skills covers the knowledge and skills required to prepare students as they begin exploring potential healthcare careers and practicing procedures they will execute on the job. The text covers the academic, professional, and soft skills students will need to succeed in a healthcare career. Coverage of medical math, communication skills, anatomy and physiology, and medical terminology allows students to build a strong academic foundation. Students also learn about the healthcare industry today and strategies for finding and maintaining a job in healthcare. Career Exploration features encourage students to explore a variety of healthcare careers and determine which career paths most interest them, while self-assessment opportunities guide students to careers that suit their personal strengths. Real Life Scenarios enable students to apply their knowledge to practical, professional challenges, while hands-on healthcare procedures are included to introduce students to the basic practical skills they will use as healthcare providers.

- Written specifically for high school students, the chapters in this textbook are divided into lessons, providing content in a manageable format. Study aids, including learning outcomes, chapter summaries, and extensive assessment opportunities, increase students' ability to succeed.
- New HOSA–Future Health Professionals activities encourage student and instructor involvement in HOSA and help prepare students for competitive events.
- This title is correlated to the industry-recognized credentials offered by Precision Exams, by YouScience and NCHSE National Health Science Standards for Health Science I and II.



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- 9. Medical Math Skills
- 10. Medical Terminology
- 11. Anatomy and Physiology
- 12. Disease
- 13. Health and Wellness
- 14. Lifespan Development
- 15. Healthcare Technology
- 16. Vital Signs, Height, and Weight
- 17. First Aid
- 18. Working in Healthcare

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- 7. Modeling, Testing, and Final Outputs
- 8. Mechanical Engineering
- 9. Materials Engineering
- 10. Manufacturing Engineering
- 11. Electrical Engineering
- 12. Computer Engineering
- 13. Civil Engineering
- 14. Aerospace Engineering
- 15. Chemical Engineering
- 16. Bioengineering
- 17. Environmental Engineering

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Engineering Fundamentals: Design, Principles, and Careers ©2023

by Ryan A. Brown, Joshua W. Brown, and Michael Berkeihiser

An introduction to engineering professions; inspires students to pursue engineering and other STEM-related careers



Engineering Fundamentals: Design, Principles, and Careers provides a complete introduction to the field, starting with the design process and then reviewing, in-depth, ten common engineering disciplines. For each discipline, career options, educational requirements, basic math and science principles, and real-world applications are presented. The content fully supports STEM initiatives and an activity-based curriculum. The third edition has been updated to include cuttingedge technologies from wind turbines to vaccine development to quantum dots, and over 70 hands-on activities have been added to the end-of-chapter material.

- Strong end-of-chapter pedagogy is designed to assess multiple levels of learning with Know and Understand, Apply and Analyze, and Critical Thinking questions, as well as Communicating about Engineering.
- Students learn methods to identify problems, brainstorm, and develop solutions.





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Exploring Drafting ©2023

by John R. Walker, Bernard D. Mathis, and Shauna Ann Scribner

Fundamental skills for beginning drafting students at any instructional level

Exploring Drafting is an ADDA-approved publication, ideal for **TEKS!** beginning drafting students at any instructional level as it stresses fundamental skills while teaching manual and CAD drafting skills. This 13th edition features a new design and numerous illustrations to enhance learning and student engagement. Coverage includes axonometric projection, geometric constructions, orthographic projection, and dimensioning practices, as well as the techniques and procedures used in creating multiview drawings, sectional views, auxiliary views, pictorial views, and pattern developments. Employability features motivate students to find, obtain, and maintain employment in the modern work environment.

- The text coverage and figures have been updated to the ASME Y14.5-2018 standard.
- Drawing problems progress from basic to advanced, and star icons are used to identify the problems as basic, intermediate, or advanced.
- Numerous special features—Before You Begin, Careers in Drafting, Industry Connection, and Communicating about Drafting—promote student engagement and class discussions.
- The end-of-chapter drawing problems help students build problem-solving skills and practice drafting techniques.
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- 7. Computer-Aided Drafting and Design
- 8. Lettering
- 9. Multiview Drawings
- 10. Dimensioning
- 11. Sectional Views
- 12. Auxiliary Views
- 13. Pictorials
- 14. Pattern Development
- 15. Working Drawings
- 16. Making Prints
- 17. Design
- 18. Models, Mockups, and Prototypes
- 19. Maps
- 20. Graphs and Charts
- 21. Welding Drafting
- 22. Fasteners
- 23. Electrical and Electronics Drafting
- 24. Architectural Drafting
- 25. Manufacturing Processes

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Working with Young Children ©2024, 10e

by Judy Herr

An introduction to the field of early childhood education and care

Includes brain development, child development theories and practices, and preparation of engaging learning experiences



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Principles of Food Science

©2022, 5e by Janet D. Ward, Larry T. Ward, and Jodi Songer Riedel

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Course: Foundations of Cybersecurity

Principles of Cybersecurity

by Linda K. Lavender

An introductory text with effective pedagogical elements and hands-on practice

Includes everything you need to teach a cybersecurity course, including labs and

Course: Computer Science I

Introduction to Computer Science: Java Programming

by Julie A. Anderson, Kathleen M. Austin, and Lorraine N. Bergkvist

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