**KINESIOLOGY – KINES**

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Kinesiology, Athletics and Dance Division  
Kinesiology Office Building, Room 104

**Possible career opportunities**  
Kinesiology is the interdisciplinary study of human movement, including but not limited to history, sociology, psychology, physiology and biomechanics. As a result, students earning a degree in kinesiology are able to pursue a wide variety of careers: physical education, coaching, athletic training (including sports medicine and allied health fields such as physical therapy, physician assistant and nursing), fitness instruction (personal training and strength and conditioning) and sports/recreation management (including sport administration, journalism, marketing, and law, as well as community parks and recreation). Many career options require more than two years of college study.

**Associate in arts in kinesiology for transfer**  
Students completing the program will be able to...

A. describe and explain the scholarly study of human movement and its significance to our understanding of physical activity.

B. assess the importance of physical activity in our daily lives (e.g. recreation, self-expression, health, competition, etc.).

C. differentiate among the sub-disciplines of kinesiology (e.g. history, biomechanics, philosophy, etc.) and discuss the knowledge specific to those areas.

D. demonstrate knowledge in related disciplines required as core preparation for kinesiology majors (e.g. chemistry, biology, physics, statistics, etc.).

E. apply a variety of research methods to locate and use appropriate information from various sources.

Kinesiology is the academic discipline focusing on the study of all aspects of human movement. Programs of study at the baccalaureate level include exercise science, sports management, allied health profession preparation, and pursuit of a teaching credential to become a secondary school teacher/coach.

The associate in arts in kinesiology for transfer is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major.

In order to earn the degree, students must:

- Complete 60 CSU-transferable units.
- Complete the California State University-General Education-Breadth pattern (CSU GE-Breadth); or the Intersegmental General Education Transfer Curriculum (IGETC) pattern, including the Area 1C requirement for Oral Communication.
- Complete a minimum of 18 units in the major.
- Earn a grade of “C” or higher in all courses required for the major.

Students transferring to a CSU campus that accepts the degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system, or those students who do not intend to transfer.

Students must complete each course used to meet a major requirement with a “C” grade or higher. Some courses in the major satisfy both major and CSUGE/IGETC general education requirements; however, the units are only counted once toward the 60 unit requirement for an associate degree. Some variations in requirements may exist at certain four-year institutions; therefore, students who intend to transfer are advised to refer to the catalog of the prospective transfer institution and consult a counselor.

**Program and course descriptions**

**Major requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOSC-139</td>
<td>Human Anatomy</td>
<td>5</td>
</tr>
<tr>
<td>BIOSC-140</td>
<td>Human Physiology</td>
<td>5</td>
</tr>
<tr>
<td>KINES-210</td>
<td>Introduction to Kinesiology</td>
<td>3</td>
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</tbody>
</table>

**Plus a minimum of 6 units from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUS-240</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH-142</td>
<td>Elementary Statistics with Probability</td>
<td>4</td>
</tr>
<tr>
<td>BIOSC-117</td>
<td>Human Biology with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-120</td>
<td>General College Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>HSCI-230</td>
<td>Advanced First Aid/CPR</td>
<td>3</td>
</tr>
<tr>
<td>PHYS-120</td>
<td>General College Physiology</td>
<td>4</td>
</tr>
<tr>
<td>PHYS-130</td>
<td>Physics for Engineers and Scientists A-</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Mechanics and Wave Motion</td>
<td></td>
</tr>
</tbody>
</table>

**Plus at least 3 units from:**

**Maximum of one course (minimum one unit) from any three of the following areas:**

**Aquatics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KNACT-100A</td>
<td>Beginning Swimming</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-102A</td>
<td>Beginning Aquatic Fitness</td>
<td>0.5-2</td>
</tr>
</tbody>
</table>

**Fitness**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KNACT-110A</td>
<td>Beginning Hatha Yoga</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-126</td>
<td>Aerobics/Step Aerobics</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-128A</td>
<td>Beginning Cardio Kickboxing</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-130A</td>
<td>Beginning Fitness Walking</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-148A</td>
<td>Beginning Power Lifting</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNDAN-105A</td>
<td>Pilates Mat Work I</td>
<td>0.5-2</td>
</tr>
</tbody>
</table>
Kinesiology

Individual sports
KNACT-160A Beginning Badminton ......................................... 0.5-2
KNACT-162 Bowling ................................................................ 0.5-2
KNACT-164A Intermediate Golf .............................................. 0.5-2
KNACT-164B Intermediate Golf .............................................. 0.5-2
KNACT-166A Beginning Tennis .............................................. 0.5-2

Team sports
KNACT-170A Beginning Basketball ........................................ 0.5-2
KNACT-176A Beginning Soccer ............................................. 0.5-2
KNACT-182A Beginning Volleyball ......................................... 0.5-2
KNACT-182B Intermediate Volleyball .................................... 0.5-2
KNACT-182C Advanced Volleyball ....................................... 0.5-2

Combatives
KNCMB-110 Self Defense .................................................. 0.5-2
KNCMB-118A Beginning Taekwondo ..................................... 0.5-2
KNCMB-126A Beginning Aikido .......................................... 0.5-2
KNCMB-134 Karate ............................................................ 0.5-2

Dance
KNDAN-100 Introduction to Dance ..................................... 0.5-2
KNDAN-164A Ballroom/Social Dance I ................................. 0.5-2

total minimum units for the major 22

Associate in science degree
Fitness instruction

Students completing the program will be able to...
A. conduct assessment of personal fitness levels.
B. develop a conditioning program to improve conditioning levels utilizing the periodization model.
C. design a conditioning program to meet the unique needs of special populations.

The associate in science degree in fitness instruction is a two-year course of study designed for students who are interested in a career in the fitness industry and/or wish to transfer to a four-year institution in kinesiology or related major. It will expose students to many facets of the fitness industry and is appropriate for those students who wish to become a personal trainer and/or group exercise instructor. Completion of the degree will also prepare students to sit for one of the national personal training or group exercise instructor certification examinations. Students who intend to transfer to a four-year institution must consult with program faculty and college counselors to ensure that the requirements for transfer to appropriate institutions are met. Possible programs of study at the baccalaureate level include exercise science, strength and conditioning, preparation for a teaching credential or other specialty area under the kinesiology umbrella.

To earn a degree, students must complete each course used to meet a major requirement with a “C” grade or higher and complete general education requirements as listed in the catalog. Certain courses may satisfy both major and general education requirements; however, the units are only counted once.

major requirements:  

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>HSCI-230 Advanced First Aid/CPR</td>
<td>3</td>
</tr>
<tr>
<td>KINES-234 Introduction to Sports Medicine and Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KINES-240 Principles of Optimizing Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>KINES-242 Exercise Techniques and Fitness Assessments</td>
<td>1</td>
</tr>
<tr>
<td>KINES-246 Sport and Exercise Psychology</td>
<td>3</td>
</tr>
<tr>
<td>KINES-248 Sport and Society</td>
<td>3</td>
</tr>
<tr>
<td>KINES-250 Professional Aspects of Personal Training</td>
<td>3</td>
</tr>
<tr>
<td>KINES-252 Professional Aspects of Group Personal Training</td>
<td>1.5</td>
</tr>
<tr>
<td>KINES-254 Practical Experience in Personal Training and Fitness Instruction I</td>
<td>4</td>
</tr>
<tr>
<td>KINES-255 Practical Experience in Personal Training and Fitness Instruction II</td>
<td>4</td>
</tr>
</tbody>
</table>

plus at least 3 units from:
- BIOSC-101 Fundamentals of Biological Science | 3 |
- BIOSC-102 Fundamentals of Biological Science with Laboratory | 4 |
- BIOSC-116 Human Biology | 3 |
- BIOSC-117 Human Biology with Laboratory | 4 |
- BIOSC-120 Introduction to Human Anatomy and Physiology | 5 |
- BIOSC-139 Human Anatomy | 5 |
- BIOSC-140 Human Physiology | 5 |

plus at least 3 units from:
- HSCI-124 Health and Wellness | 3 |
- HSCI-170 Women's Health | 3 |

plus at least 2 units from:
- KNACT-146A Theory and Practice of Strength Training and Fitness I | 0.5-2 |
- KNACT-146B Theory and Practice of Strength Training and Fitness II | 0.5-2 |
- KNACT-146C Theory and Practice of Strength Training and Fitness III | 0.5-2 |
- KNACT-146D Theory and Practice of Strength Training and Fitness IV | 0.5-2 |
- KNACT-148A Beginning Power Lifting | 0.5-2 |

plus at least 2 units from:
- KNACT-110A Beginning Hatha Yoga | 0.5-2 |
- KNACT-110B Intermediate Hatha Yoga | 0.5-2 |
- KNACT-110C Advanced Hatha Yoga | 0.5-2 |
- KNACT-114A Beginning Stretch and Yoga for Sports | 0.5-2 |
- KNACT-114B Intermediate Stretch and Yoga for Sports | 0.5-2 |
- KNACT-120 Physical Fitness | 0.5-2 |
- KNACT-122A Beginning Body Sculpt | 0.5-2 |
- KNACT-124A Beginning Hips, Thighs and Abs | 0.5-2 |
- KNACT-124B Intermediate Hips, Thighs and Abs | 0.5-2 |
- KNACT-126 Aerobics/Step Aerobics | 0.5-2 |
- KNACT-128A Beginning Cardio Kickboxing | 0.5-2 |
- KNACT-128B Intermediate Cardio Kickboxing | 0.5-2 |
- KNACT-140 Indoor Cycling | 0.5-2 |
- KNACT-142A Beginning Boot Camp | 0.5-2 |
- KNACT-144A Beginning Super Circuit | 0.5-2 |
- KNACT-144B Intermediate Super Circuit | 0.5-2 |
- KNDAN-105A Pilates Mat Work I | 0.5-2 |

total minimum units for the major 41.5
**Kinesiology**

**recommended courses:**
- BUSMG-191 Small Business Management ........................................... 3
- KINES-210 Introduction to Kinesiology ............................................. 3
- KINES-230 Overview of Sports Medicine and Fitness Professions .............. 3
- KINES-232 Introduction to Sports Massage ........................................... 1.5
- KINES-235 Advanced Sports Medicine and Athletic Training .................. 3
- KINES-256 Theory & Practice of Performance Training ............................ 2
- KINES-257 Theory & Practice of Corrective Exercise Training & Exam Prep .... 2
- KINES-258 Personal Training National Examination Preparation ............... 2

**Associate in science degree**

**Kinesiology**

Students completing the program (coaching emphasis) will be able to...

A. develop practice plans, analyze strategy and teach techniques specific to a chosen sport.

B. incorporate concepts of an athlete’s psychological and physical health to improve performance.

C. develop an educational and career plan matched to their skills, aptitudes, and professional requirements.

Students completing the program (Sports and recreation management) will be able to...

A. compare and contrast career opportunities within the sports management and kinesiology sectors.

B. apply management and organizational techniques to the sports and recreation setting.

C. design individual components sports management programs.

D. describe basic principles of kinesiology.

E. utilize these disciplines in completing a transfer degree pathway.

The associate in science degree in kinesiology offers students two areas of specialization from which to choose: sport and recreation management or coaching. The degree is a two-year course of study designed for students who are interested in a career as an athletic coach and/or preparing for an entry level job in sports or recreation administration at a wide variety of businesses such as fitness centers, spas and wellness centers, recreational facilities, etc.

While most of the kinesiology major requirements are transferable and many meet prerequisites required in associate majors, this degree is not designed as a transfer curriculum. Students who intend to transfer must consult with a program advisor or counselor to ensure that the requirements for transfer to four-year institutions of their choice are met. Possible programs of study at the baccalaureate level include pursuit of a teaching credential to become a secondary school teacher/coach, or exercise science, sports management or other specialty area related to the discipline of kinesiology. Students who intend to transfer are advised to select General Education Option 2 (IGETC) or Option 3 (CSU GE). Option 1 (DVC General Education) is appropriate for students who do not intend to transfer.

To earn this degree, students must complete the core major requirements as indicated and select an area of specialization. Students must complete each course used to meet a major requirement with a “C” grade or higher and complete general education requirements as listed in the catalog. Certain courses may satisfy both major and general education requirements; however the units are only counted once. For this degree a maximum of 15 units may be double-counted.

**major requirements:**
- KINES-234 Introduction to Sports Medicine and Athletic Training .............. 3
- KINES-230 Overview of Sports Medicine and Fitness Professions .............. 3
- HSCI-230 Advanced First Aid/CPR .................................................. 3
- KINES-221 Principles of Optimizing Human Performance ........................ 3
- KINES-222 Exercise Techniques and Fitness Assessments ........................ 1
- KINES-224 Sport and Exercise Psychology ......................................... 3
- KINES-225 Sport and Society ........................................................... 3
- PSYCH-101 Introduction to Psychology .............................................. 3
- plus at least 3 units from:
  - NUTRI-120 Sports Nutrition: Fueling the Athlete ................................ 3
  - NUTRI-160 Nutrition: Science and Applications .................................. 3
- plus at least 3 units from:
  - BUS-240 Business Statistics .......................................................... 3
  - MATH-135 College Algebra .............................................................. 4
  - MATH-142 Elementary Statistics with Probability ................................ 4
- plus at least 3 units from:
  - BIOSC-101 Fundamentals of Biological Science .................................. 3
  - BIOSC-102 Fundamentals of Biological Science with Laboratory .............. 4
  - BIOSC-116 Human Biology .............................................................. 3
  - BIOSC-139 Human Anatomy ............................................................. 5
  - BIOSC-140 Human Physiology .......................................................... 5

**coaching emphasis**

**required courses:**
- KINES-260 Theory of Coaching Sports ................................................. 3
- plus at least 2 units from:
  - KNACT-100A Beginning Swimming .................................................. 0.5-2
  - KNACT-100B Intermediate Swimming ................................................. 0.5-2
  - KNACT-160A Beginning Badminton .................................................... 0.5-2
  - KNACT-160B Intermediate Badminton ............................................... 0.5-2
  - KNACT-164A Beginning Golf ............................................................. 0.5-2
  - KNACT-164B Intermediate Golf ......................................................... 0.5-2
  - KNACT-166A Beginning Tennis ............................................................ 0.5-2
  - KNACT-170A Beginning Basketball .................................................... 0.5-2
  - KNACT-170B Intermediate Basketball ................................................ 0.5-2
  - KNACT-174A Beginning Men’s Lacrosse ............................................. 0.5-2
  - KNACT-174B Intermediate Men’s Lacrosse ......................................... 0.5-2
  - KNACT-176A Beginning Soccer ........................................................... 0.5-2
  - KNACT-176B Intermediate Soccer ....................................................... 0.5-2
  - KNACT-182A Beginning Volleyball .................................................... 0.5-2
  - KNACT-182B Intermediate Volleyball ................................................ 0.5-2
  - KNACT-182C Advanced Volleyball ...................................................... 0.5-2
  - KNACT-195A Beginning Plyometrics and Agility Training for Female Athletes 0.25-1
  - KNACT-195B Intermediate Plyometrics and Agility Training for Female Athletes 0.25-1

**PROGRAM AND COURSE DESCRIPTIONS**
Kinesiology

KNACT-195C Advanced Plyometrics and Agility
Training for Female Athletes ..................... 0.25-1

or at least 2 units from:

KNICA-199 Sport-Specific Athletic Conditioning .......... 0.5-2
KNICA-200 Intercollegiate Baseball, Men .................. 3
KNICA-202A Intermediate Basketball-A, Men ............. 2
KNICA-202B Intermediate Basketball-B, Men ............. 1
KNICA-203B Intermediate Basketball-B, Women .......... 1
KNICA-206 Intercollegiate Football, Men ................ 3
KNICA-210 Intercollegiate Soccer, Women ................. 3
KNICA-215 Intercollegiate Softball, Women ............... 3
KNICA-216 Intercollegiate Swimming and Diving, Men .... 3
KNICA-217 Intercollegiate Swimming and Diving, Women ... 3
KNICA-223 Intercollegiate Volleyball, Women .......... 3
KNICA-224 Intercollegiate Water Polo, Men ............. 3
KNICA-225 Intercollegiate Water Polo, Women .......... 3

**total minimum units for the major** 36

**sport and recreation management emphasis**

**required courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINES-220 Introduction to Sport and Recreation Management</td>
<td>3</td>
</tr>
<tr>
<td>KINES-222 Practical Experience in Sport and Recreation Management I</td>
<td>4</td>
</tr>
<tr>
<td>KINES-223 Practical Experience in Sport and Recreation Management II</td>
<td>4</td>
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</table>

**plus at least 2 units from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>KNACT-100A Beginning Swimming .................</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-100B Intermediate Swimming ..............</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-160A Beginning Badminton ...............</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-160B Intermediate Badminton ............</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-164A Beginning Golf .....................</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-164B Intermediate Golf ..................</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-166A Beginning Tennis ...................</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-170A Beginning Basketball ...............</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-170B Intermediate Basketball ............</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-174A Beginning Men's Lacrosse ..........</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-174B Intermediate Men's Lacrosse .......</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-176A Beginning Soccer ..................</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-176B Intermediate Soccer ...............</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-182A Beginning Volleyball ...............</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-182B Intermediate Volleyball ...........</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-182C Advanced Volleyball ...............</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-195A Beginning Plyometrics and Agility Training for Female Athletes</td>
<td>0.25-1</td>
</tr>
<tr>
<td>KNACT-195B Intermediate Plyometrics and Agility Training for Female Athletes</td>
<td>0.25-1</td>
</tr>
<tr>
<td>KNACT-195C Advanced Plyometrics and Agility Training for Female Athletes</td>
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**total minimum units for the major** 44

**recommended degree electives:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BIOSC-139 Human Anatomy .......................</td>
<td>5</td>
</tr>
<tr>
<td>KINES-230 Overview of Sports Medicine and Fitness Professions</td>
<td>2</td>
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<tr>
<td>KINES-232 Introduction to Sports Massage ..........</td>
<td>1.5</td>
</tr>
<tr>
<td>KINES-234 Introduction to Sports Medicine and Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KINES-235 Advanced Sports Medicine and Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KINES-236 Clinical Experiences in Sports Medicine and Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KINES-237 Clinical Experiences in Sports Medicine and Athletic Training II</td>
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<tr>
<td>KINES-238 Clinical Experiences in Sports Medicine and Athletic Training III</td>
<td>2</td>
</tr>
<tr>
<td>KINES-240 Principles of Optimizing Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>KINES-242 Exercise Techniques and Fitness Assessments</td>
<td>1</td>
</tr>
<tr>
<td>KINES-248 Sport and Society ...................</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH-101 Introduction to Psychology ..........</td>
<td>3</td>
</tr>
</tbody>
</table>

**Associate in science degree**

**Sports medicine/athletic training**

Students completing the program will be able to...

A. differentiate between a variety of anatomical structures and related technology.

B. utilize injury evaluation, treatment, rehabilitation and massage techniques.

C. develop an educational and career plan matched to their skills, aptitudes, and professional requirements.

The associate in science degree in sports medicine/athletic training program is a two-year course of study designed for students interested in becoming allied health care professionals such as athletic trainers or physical therapists. It combines academic, laboratory and clinical experience to prepare students for further study or to obtain employment as an entry-level rehabilitation/allied health paraprofessional. Earning this degree may facilitate the student’s transfer to a four-year college and/or professional program.

DVC Sports medicine/athletic training students who intend to transfer must consult with a program advisor or counselor to ensure that the requirements for transfer to four-year institutions of their choice are met. Students who intend to transfer are advised to select either General Education Option 2 (IGETC) or Option 3 (CSU GE). General Education Option 1 (DVC General Education) is appropriate for students who do not intend to transfer.

Students must complete each course used to meet a major requirement with a “C” grade or higher, maintain an overall GPA of 2.75 or higher and complete general education requirements as listed in the catalog. Certain courses may satisfy both major and general education requirements; however, the units are only counted once.

**major requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOSC-139 Human Anatomy .......................</td>
<td>5</td>
</tr>
<tr>
<td>KINES-230 Overview of Sports Medicine and Fitness Professions</td>
<td>2</td>
</tr>
<tr>
<td>KINES-232 Introduction to Sports Massage ..........</td>
<td>1.5</td>
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<tr>
<td>KINES-234 Introduction to Sports Medicine and Athletic Training</td>
<td>3</td>
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<tr>
<td>KINES-235 Advanced Sports Medicine and Athletic Training</td>
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<td>KINES-236 Clinical Experiences in Sports Medicine and Athletic Training</td>
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<td>KINES-238 Clinical Experiences in Sports Medicine and Athletic Training III</td>
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</tr>
<tr>
<td>KINES-240 Principles of Optimizing Human Performance</td>
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</tr>
<tr>
<td>KINES-242 Exercise Techniques and Fitness Assessments</td>
<td>1</td>
</tr>
<tr>
<td>KINES-248 Sport and Society ...................</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH-101 Introduction to Psychology ..........</td>
<td>3</td>
</tr>
</tbody>
</table>
Kinesiology

**plus at least 3 units from:**
- CHEM-107 Integrated Inorganic, Organic, and Biological Chemistry .............. 5
- CHEM-108 Introductory Chemistry .................................................................. 4
- CHEM-109 Introduction to Organic and Biochemistry .............................. 4
- CHEM-120 General College Chemistry I ............................................. 5
- PHYS-110 Elementary Physics .................................................................. 3
- PHYS-120 General College Physics I ......................................................... 4

**plus at least 3 units from:**
- BIOSC-140 Human Physiology ................................................................. 5
- HSCI-124 Health and Wellness .................................................................. 3

**plus at least 3 units from:**
- BIOSC-101 Fundamentals of Biological Science ..................................... 3
- BIOSC-102 Fundamentals of Biological Science with Laboratory .............. 4
- BIOSC-130 Principles of Cellular and Molecular Biology ....................... 5
- HSCI-230 Advanced First Aid/CPR ........................................................... 3
- KINES-210 Introduction to Kinesiology ..................................................... 3
- KINES-246 Sport and Exercise Psychology ................................................ 3
- NUTRI-160 Nutrition: Science and Applications ....................................... 3

**total minimum units for the major** .......................... 41.5

**Certificate of achievement**

**Coaching**

Students completing the program will be able to...

A. develop practice plans, analyze strategy and teach techniques specific to a chosen sport.

B. incorporate concepts of an athlete’s psychological and physical health to improve performance.

C. develop an educational and career plan matched to their skills, aptitudes, and professional requirements.

The coaching certificate of achievement is a one-year course of study that prepares students to be an effective recreational, youth or secondary school coach. Specific sport options offered include baseball, basketball, cross-country, football, soccer, softball, swimming, tennis, track and field, volleyball and water polo. To earn a certificate of achievement, students must complete each course used to meet a certificate requirement with a “C” grade or higher.

**required courses:**

- HSCI-230 Advanced First Aid/CPR ........................................................... 3
- KINES-234 Introduction to Sports Medicine and Athletic Training .......... 3
- KINES-240 Principles of Optimizing Human Performance .......................... 3
- KINES-242 Exercise Techniques and Fitness Assessments .......................... 1
- KINES-246 Sport and Exercise Psychology ................................................ 3
- KINES-260 Theory of Coaching Sports ..................................................... 3

**plus at least 3 units from:**

- NUTRI-120 Sports Nutrition: Fueling the Athlete ..................................... 3
- NUTRI-160 Nutrition: Science and Applications ....................................... 3

**plus at least 2 units from:**

- KNACT-160A Beginning Badminton .......................................................... 0.5-2
- KNACT-160B Intermediate Badminton ...................................................... 0.5-2
- KNACT-164A Beginning Golf ..................................................................... 0.5-2
- KNACT-164B Beginning Golf ..................................................................... 0.5-2
- KNACT-166A Beginning Tennis ............................................................... 0.5-2
- KNACT-170A Beginning Basketball .......................................................... 0.5-2
- KNACT-170B Intermediate Basketball ...................................................... 0.5-2
- KNACT-174A Beginning Men’s Lacrosse ................................................. 0.5-2
- KNACT-174B Intermediate Men’s Lacrosse ............................................. 0.5-2
- KNACT-176A Beginning Soccer ............................................................... 0.5-2
- KNACT-176B Intermediate Soccer ............................................................ 0.5-2
- KNACT-182A Beginning Volleyball .......................................................... 0.5-2
- KNACT-182B Intermediate Volleyball ...................................................... 0.5-2
- KNACT-182C Advanced Volleyball .......................................................... 0.5-2
- KNACT-195A Beginning Pyrometrics and Agility Training for Female Athletes .................................................. 0.25-1
- KNACT-195B Intermediate Pyrometrics and Agility Training for Female Athletes .............................................. 0.25-1
- KNACT-195C Advanced Pyrometrics and Agility Training for Female Athletes .............................................. 0.25-1

**or at least 2 units from:**

- KNICA-199 Sport-Specific Athletic Conditioning ...................................... 0.5-2
- KNICA-200 Intercollegiate Baseball, Men ................................................. 3
- KNICA-202A Intercollegiate Basketball-A, Men ....................................... 2
- KNICA-202B Intercollegiate Basketball-B, Men ....................................... 1
- KNICA-203A Intercollegiate Basketball-A, Women ................................... 2
- KNICA-203B Intercollegiate Basketball-B, Women ................................... 1
- KNICA-206 Intercollegiate Football, Men .................................................. 3
- KNICA-210 Intercollegiate Soccer, Women ............................................... 3
- KNICA-215 Intercollegiate Softball, Women ............................................. 3
- KNICA-216 Intercollegiate Swimming and Diving, Men .......................... 3
- KNICA-217 Intercollegiate Swimming and Diving, Women ....................... 3
- KNICA-223 Intercollegiate Volleyball, Women .......................................... 3
- KNICA-224 Intercollegiate Water Polo, Men ............................................ 3
- KNICA-225 Intercollegiate Water Polo, Women ......................................... 3

*Activity courses or intercollegiate athletic participation must be in the selected area of coaching emphasis.

**total minimum required units** .......................... 21

**Certificate of achievement**

**Personal training**

Students completing the program will be able to...

A. conduct assessment of personal fitness levels.

B. develop a conditioning program to improve conditioning levels utilizing the periodization model.

C. design a conditioning program to meet the unique needs of special populations.

The personal training certificate program is a one-year course of study that will expose students to many facets of the fitness industry and prepares them to obtain entry-level employment as a personal trainer. Completion of the certificate requirements will also prepare students to sit for national personal training examinations.

To earn a certificate of achievement, a student must complete each course used to meet a certificate requirement with a grade of “C” or higher. Courses are available in the day and evening.
Kinesiology

**required courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>KINES-240</td>
<td>Principles of Optimizing Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>KINES-242</td>
<td>Exercise Techniques and Fitness Assessments</td>
<td>1</td>
</tr>
<tr>
<td>KINES-246</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
</tr>
<tr>
<td>KINES-250</td>
<td>Professional Aspects of Personal Training and Fitness Instruction</td>
<td>3</td>
</tr>
<tr>
<td>KINES-254</td>
<td>Practical Experience in Personal Training and Fitness Instruction</td>
<td>4</td>
</tr>
<tr>
<td>KINES-255</td>
<td>Practical Experience in Personal Training and Fitness Instruction II</td>
<td>4</td>
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**plus at least 1.5 units from:**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>COMM-128</td>
<td>Interpersonal Communication</td>
<td>3</td>
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<tr>
<td>KINES-234</td>
<td>Introduction to Sports Medicine and Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>KINES-252</td>
<td>Professional Aspects of Group Personal Training</td>
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**plus at least 3 units from:**

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<tbody>
<tr>
<td>NUTRI-115</td>
<td>Nutrition and Health: Personal Applications</td>
<td>3</td>
</tr>
<tr>
<td>NUTRI-120</td>
<td>Sports Nutrition: Fueling the Athlete</td>
<td>3</td>
</tr>
<tr>
<td>NUTRI-160</td>
<td>Nutrition: Science and Applications</td>
<td>3</td>
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</table>

**plus at least 1 unit from:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>KNACT-146A</td>
<td>Theory and Practice of Strength Training and Fitness I</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-146B</td>
<td>Theory and Practice of Strength Training and Fitness II</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-146C</td>
<td>Theory and Practice of Strength Training and Fitness III</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-146D</td>
<td>Theory and Practice of Strength Training and Fitness IV</td>
<td>0.5-2</td>
</tr>
<tr>
<td>KNACT-146A</td>
<td>Beginning Power Training</td>
<td>0.5-2</td>
</tr>
</tbody>
</table>

**KINES-100 Fitness and Wellness**

1 unit SC

- **CSU GE:** E
- **18 hours lecture per term**
- **Recommended:** Eligibility for ENGL-122 or equivalent

This course presents the physiological, psychological and sociological aspects of wellness. Principles of fitness, wellness and health promotion will be covered. CSU, UC (credit limits may apply to UC - see counselor)

**KINES-150 Topics in Kinesiology Theory**

.3-4 units SC

- **Variable hours**

A supplemental course in physical education theory to provide a study of topics not covered in other courses or to address current developments in the field. Specific topics to be announced in the schedule of classes. CSU

**KINES-210 Introduction to Kinesiology**

3 units SC

- **54 hours lecture per term**
- **Recommended:** Eligibility for ENGL-122 or equivalent

This is an introductory course that surveys various subdisciplines related to the study of human movement. Students will examine the areas of history, sociology, biomechanics, physiology, and psychology, as they relate to the sport and exercise environment. In addition, students will explore three career pathways involving the study of human movement; teaching, research, and professional practice. The course also introduces students to the concepts and skills of locating, evaluating, synthesizing, and communicating information in various formats. C-ID KIN 100, CSU, UC (credit limits may apply to UC - see counselor)

**KINES-220 Introduction to Sport and Recreation Management**

3 units SC

- **54 hours lecture per term**
- **Recommended:** Eligibility for ENGL-122 or equivalent

This is an introductory course in sport and recreation management. Students will examine the history and development of the profession, discover and evaluate a variety of career opportunities, discuss organizational and managerial strategies, and analyze current trends in sport and recreation management. CSU

**total minimum required units** 24.5
Kinesiology

KINES-222  Practical Experience in Sport and Recreation Management I
4 units  SC
• 36 hours lecture/108 hours laboratory by arrangement per term
• Recommended: KINES-220 or equivalent
This is an internship course that will expose students to the practical application and responsibilities within the field of sport and recreation management. They will have the opportunity to assist within the Diablo Valley College Kinesiology, Athletics, and Dance Department on a variety of projects including marketing, game management, website management, sports information, fundraising, and/or scheduling. CSU

KINES-223  Practical Experience in Sport and Recreation Management II
4 units  SC
• 36 hours lecture/108 hours laboratory by arrangement per term
• Prerequisite: KINES-222 or equivalent
This is an internship course that continues to enhance students’ skills and practical experiences within the field of sport and recreation management. Students will participate in creating and implementing projects within the Diablo Valley College Kinesiology, Athletics, and Dance Department. Topics for projects include, but are not limited to, marketing, game management, website management, sports information, fundraising, and/or scheduling. CSU

KINES-230  Overview of Sports Medicine and Fitness Professions
2 units  SC
• 36 hours lecture per term
This course will acquaint students with a variety of sports medicine, fitness and health care professions. Information presented will include job descriptions, educational and certification/licensure requirements, work environment and potential salary ranges. CSU

KINES-232  Introduction to Sports Massage
1.5 units  SC
• 18 hours lecture/27 hours laboratory per term
This course will present the theory and practice of massage and its role in treating and preventing athletic injuries as well as preparing athletes for competition. Students will apply and experience the application of a variety of massage, stretching and relaxation techniques. CSU

KINES-234  Introduction to Sports Medicine and Athletic Training
3 units  SC
• 36 hours lecture/54 hours laboratory per term
• Recommended: Eligibility for ENGL-122 or equivalent
This course will provide the future coach, athletic trainer and other health care providers with the basic theoretical knowledge and practical skills necessary for the proper and effective management of common injuries. The students will also develop the ability to recognize these injuries, manage emergency situations and apply preventative taping. CSU, UC (credit limits may apply to UC - see counselor)

KINES-235  Advanced Sports Medicine and Athletic Training
3 units  SC
• 36 hours lecture/54 hours laboratory per term
• Prerequisite: KINES-234 or equivalent
This course builds on concepts from KINES-234. It will introduce the student to the theoretical knowledge and practical skills necessary to evaluate and rehabilitate injuries. The medical and surgical management of injuries will also be discussed in presentations by orthopedic surgeons and podiatrists. CSU

KINES-236  Clinical Experiences in Sports Medicine and Athletic Training I
2 units  SC
• 108 hours laboratory by arrangement per term
• Prerequisite: KINES-234 or completion of one year high school ROP sports medicine or equivalent
This course will expose students to basic injury prevention and care. The student will observe and assist athletic trainers in administering health care to the DVC athletes. Skills to be learned and performed include prophylactic taping and wrapping, immediate injury management and modality application. CSU

KINES-237  Clinical Experiences in Sports Medicine and Athletic Training II
2 units  SC
• 108 hours laboratory by arrangement per term
• Prerequisite: KINES-235 (may be taken concurrently) and KINES-236 or equivalents
This course will expose students to injury evaluation and career exploration in the area of sports medicine. Students will observe and assist athletic trainers in evaluating and treating DVC athletes. This may be augmented by off-campus observations of physicians and/or other health care providers. CSU
Kinesiology

KINES-238  Clinical Experiences in Sports Medicine and Athletic Training III
2 units  SC
• 108 hours laboratory by arrangement per term
• Prerequisite: KINES-237 or equivalent
This course will expose the student to advanced athletic injury evaluation and anatomy. Problem solving and professional development will be emphasized. The student will observe and assist athletic trainers in evaluating and rehabilitating DVC student athletes. This may be augmented by off-campus observations of surgery. CSU

KINES-239  Clinical Experiences in Sports Medicine and Athletic Training IV
2 units  SC
• 108 hours laboratory by arrangement per term
• Prerequisite: KINES-238 or equivalent
This course will expose the student to advanced injury rehabilitation principles and clinical intervention techniques. Problem solving and professional development will be emphasized. Students will observe and assist athletic trainers in evaluating and rehabilitating DVC student athletes. This may be augmented by off-campus observations of surgery. CSU

KINES-240  Principles of Optimizing Human Performance
3 units  SC
• 54 hours lecture per term
• Recommended: Eligibility for ENGL-122 or equivalent
This course is a study of the body’s adaptations to exercise. The development of fitness programs to maximize these strength and conditioning adaptations is emphasized. The information is relevant for students interested in professions such as personal training, physical therapy, athletic training/sports medicine, teaching and coaching, as well as for people seeking to improve their own fitness level or athletic performance. This course presents the principles and foundations for national personal training exams. CSU, UC (credit limits may apply to UC - see counselor)

KINES-242  Exercise Techniques and Fitness Assessments
1 unit  SC
• 54 hours laboratory per term
• Recommended: KINES-240 or equivalent (may be taken concurrently)
This course is a companion laboratory course to KINES-240. Topics include cardiovascular, pulmonary and muscular responses to exercise. Students will also practice the instruction of proper techniques of strength training and fitness conditioning, conditioning, conduct fitness assessments and evaluate progress in exercise programs. CSU, UC (credit limits may apply to UC - see counselor)

KINES-246  Sport and Exercise Psychology
3 units  SC
• CSU GE: E
• 54 hours lecture per term
• Recommended: Eligibility for ENGL-122 or equivalent
This course addresses the scientific approach to psychological aspects of sport and exercise performance, as well as the practical application of that knowledge. Factors that influence sport performance and/or exercise adherence, such as personality, cognitive and physiological anxiety, motivation, group/social dynamics, and leadership, are presented. In addition, psychological skills training methods such as arousal management, imagery, goal setting, and concentration are introduced. Lastly, the course defines the relationship between sport/exercise participation (from childhood through adulthood), and psychological health, wellness, and development. CSU

KINES-248  Sport and Society
3 units  SC
• IGETC: 4; CSU GE: D; DVC GE: IV
• 54 hours lecture per term
• Recommended: Eligibility for ENGL-122 or equivalent
This course demonstrates the many ways sport and society interact and affect one another. The process of socialization as well as the roles of violence, gender, race, media, politics and others within the realm of sport, are examined. Considerations of pertinent current events and scholarly journal articles to enhance students’ understanding of the topics addressed. CSU, UC

KINES-250  Professional Aspects of Personal Training
3 units  SC
• 54 hours lecture per term
• Recommended: KINES-240 or equivalent
This course is for students who are, or aspire to be, personal trainers. Emphasis in on how to become nationally certified as a personal trainer, effectively work with clients, including those within special populations, conduct assessments and create long term and short term goals, and create appropriate program design. CSU

KINES-252  Professional Aspects of Group Personal Training
1.5 units  SC
• 18 hours lecture/27 hours laboratory per term
• Recommended: KINES-240 or equivalent
This course prepares the potential personal trainer and group exercise instructor for the practical aspects of training and managing clients in a small group fitness/strength training setting. Principles and management of appropriate progression, regression and modification will be emphasized. Program design, exercise sequencing, training variables, use of strength equipment/modalities and practical teaching skills will also be included. CSU
Kinesiology

KINES-254  Practical Experience in Personal Training and Fitness Instruction I
4 units  SC  
- 36 hours lecture/108 hours laboratory by arrangement per term  
- Prerequisite: KINES-240 (may be taken concurrently) or equivalent

This is an internship course that exposes students to the practical application and responsibilities of personal training through the observation and assistance of a fitness professional. Students observe and conduct assessments on clients for fitness programs and program design development. Students examine the adaptations/adjustments (appropriate progressions/regressions) of fitness programs to meet the changing needs of the client's fitness level and risk factor management and development of long and short term fitness goals. CSU

KINES-255  Practical Experience in Personal Training and Fitness Instruction II
4 units  SC  
- 36 hours lecture/108 hours laboratory by arrangement per term  
- Prerequisite: KINES-240 (may be taken concurrently) and KINES-250 (may be taken concurrently) or equivalents

This is an internship course where students experience the practical application and responsibilities of personal training. Students perform objective assessments with clients, prepare, and execute program design, as well as create long and short term health and wellness goals based on assessments outcomes. CSU

KINES-256  Theory and Practice of Performance Exercise Training and Exam Prep.
2 units  SC  
- 36 hours lecture per term  
- Recommended: KINES-240 and KINES-250 or equivalents

This course is for personal trainers, athletic trainers, and coaches to advance their knowledge in the area of performance exercise. Performance exercise theory, assessment techniques, and strategies for optimizing human performance are emphasized. Students may be able to earn continuing education units (CEUs) and/or sit for a national examination in performance exercise. CSU

KINES-257  Theory and Practice of Corrective Exercise Training and Exam Prep.
2 units  SC  
- 36 hours lecture per term  
- Recommended: KINES-240 and KINES-250 or equivalents

This course is for personal trainers, athletic trainers, and coaches to advance their knowledge in the area of corrective exercise. Emphasis includes corrective exercise theory, assessing human movement dysfunction, the corrective exercise continuum, and corrective strategies. Students may be able to earn continuing education units (CEUs) and/or sit for a national examination in corrective exercise. CSU

KINES-258  Personal Training National Exam Preparation
2 units  SC  
- 36 hours lecture per term  
- Recommended: KINES-250 or equivalent

This course is designed to provide students with the information necessary to sit for a national personal training exam. The course expands upon information presented in other personal training courses within our program to emphasize knowledge required for passing these exams. CSU

KINES-260  Theory of Coaching Sports
3 units  SC  
- 54 hours lecture per term

This course is an introduction to a variety of coaching sports. Topics include methods of instruction, practice design, mental preparation, and program building. This course is appropriate for those looking for a career in coaching, current youth coaches and the athlete wanting to increase knowledge of their sport. No previous coaching experience is necessary. CSU, UC (credit limits may apply to UC - see counselor)

KINES-265  Theory and Strategies of American Football Offense
2 units  SC  
- 36 hours lecture per term

This course presents an overview of the strategies and techniques of American football offense. Topics include terminology, rules, strategies, mental preparation, skills, and methods of implementing the offense. CSU, UC (credit limitations may apply to UC - see counselor)
### Kinesiology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>SC</th>
<th>Lecture Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINES-266</td>
<td>Theory and Strategies of American Football Defense</td>
<td>2</td>
<td>SC</td>
<td>36 hours</td>
<td>This course presents an overview of the strategies and techniques of American football defense. Topics include terminology, rules, strategies, mental preparation, skills, and methods of implementing the defense. CSU, UC (credit limitations may apply to UC - see counselor)</td>
</tr>
<tr>
<td>KINES-295</td>
<td>Occupational Work Experience Education in KINES</td>
<td>1-4</td>
<td>SC</td>
<td>Variable</td>
<td>KINES-295 is supervised employment that extends classroom learning to the job site and relates to the student’s chosen field of study or area of career interest. Under the supervision of a college instructor, students will engage in on-the-job and other learning experiences that contribute to their employability skills and occupational or educational goals. Five hours work per week or seventy-five hours work per term is equal to one unit. Students may earn up to a maximum of sixteen units; repetition allowed per Title 5 Section 55253. CSU</td>
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<tr>
<td>KINES-298</td>
<td>Independent Study</td>
<td>.5-3</td>
<td>SC</td>
<td>Variable</td>
<td>This course is designed for advanced students who wish to conduct additional research, a special project, or learning activities in a specific discipline/subject area and is not intended to replace an existing course. The student and instructor develop a written contract that includes objectives to be achieved, activities and procedures to accomplish the study project, and the means by which the supervising instructor may assess accomplishment. CSU</td>
</tr>
<tr>
<td>KINES-299</td>
<td>Student Instructional Assistant</td>
<td>.5-3</td>
<td>SC</td>
<td>Variable</td>
<td>Students work as instructional assistants, lab assistants and research assistants in this department. The instructional assistants function as group discussion leaders, meet and assist students with problems and projects, or help instructors by setting up laboratory or demonstration apparatus. Students may not assist in course sections in which they are currently enrolled. CSU</td>
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</tbody>
</table>