# Application for Approval – New Credit Program

## Palomar Community College District
### Palomar College

## Carving Technology

### California Community Colleges

## NEW CREDIT PROGRAM

<table>
<thead>
<tr>
<th>PROPOSED PROGRAM TITLE</th>
<th>CONTACT PERSON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carving Technology</td>
<td>Chris Feddersohn</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>COLLEGE</th>
<th>TITLE</th>
</tr>
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<tbody>
<tr>
<td>Palomar College</td>
<td>Chairperson</td>
</tr>
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<table>
<thead>
<tr>
<th>DISTRICT</th>
<th>PHONE NUMBER</th>
</tr>
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<tbody>
<tr>
<td>Palomar College</td>
<td>760-744-1150 x2556</td>
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<table>
<thead>
<tr>
<th>PROJECTED PROGRAM START DATE</th>
<th>E-MAIL ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2012</td>
<td><a href="mailto:cfeddersohn@palomar.edu">cfeddersohn@palomar.edu</a></td>
</tr>
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</table>

### GOAL(S) OF PROGRAM (CHECK ALL THAT APPLY):

- [X] CAREER TECHNICAL EDUCATION (CTE)
- [ ] TRANSFER
- [ ] OTHER

### TYPE OF PROGRAM (SELECT ONLY ONE):

- [ ] A.A. DEGREE
- [X] A.S. DEGREE
- [ ] AA-T DEGREE
- [ ] AS-T DEGREE

<table>
<thead>
<tr>
<th>CERTIFICATE OF ACHIEVEMENT</th>
<th>18+semester (or 27+quarter) units</th>
<th>12-18 semester (or 18-27 quarter) units</th>
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<tbody>
<tr>
<td>Recommended T.O.P. Code</td>
<td>0952.50</td>
<td>05.0</td>
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<tr>
<td>Units for Degree Major or Area of Emphasis</td>
<td>22</td>
<td>0</td>
</tr>
<tr>
<td>Total Units for Degree</td>
<td>60</td>
<td>$0</td>
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<tr>
<td>Required Units-Certificate</td>
<td>22</td>
<td>$0</td>
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<tr>
<td>Projected Annual Completers</td>
<td>8</td>
<td>$0</td>
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<tr>
<td>Projected Net Annual Labor demand (CTE)</td>
<td>770 in Ca.</td>
<td>When will this program undergo review as part of college’s Program Evaluation Plan?</td>
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<table>
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<tr>
<th>PROJECTIONS OF PROGRAM</th>
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<tr>
<td>Number of New Faculty Positions</td>
</tr>
<tr>
<td>Est. Cost, New Equipment</td>
</tr>
<tr>
<td>Cost of New/Remodeled Facility</td>
</tr>
<tr>
<td>Est. Cost, Library Acquisitions</td>
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<tr>
<td>Projected Annual Completers</td>
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<tr>
<td>Projected Net Annual Labor demand (CTE)</td>
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<table>
<thead>
<tr>
<th>WHEN WILL THIS PROGRAM UNDERGO REVIEW AS PART OF COLLEGE’S PROGRAM EVALUATION PLAN?</th>
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<tbody>
<tr>
<td>Month</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>10</td>
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Carving Technology Degree
Palomar College

Criteria A. Appropriateness to Mission

1. Statement of Program Goals and Objectives

The Associate of Science degree in Carving Technology has the mission of training perspective certificate/degree candidates for employment/self-employment as a carver in the furniture making industry, or in a related woodworking industry. Coursework includes; fundamental machine woodworking, fundamental finishing, production woodworking, business development and operational practices, furniture design, and case furniture carving, period carving, and architectural carving. This degree enhances the seven other degrees proposed in the Cabinet and Furniture Technology discipline at Palomar College. Graduates of this degree will be employed by custom furniture makers, production furniture manufacturers, cabinetmakers, woodworking related manufacturers, furniture repair shops, or may be self-employed.

Objectives: Students who successfully complete this program will be able to:

- Work with client to design and produce custom or reproduction carving for furniture or architectural needs
- Set up a shop for producing carved work with the necessary tools, equipment, space and safety.
- Develop own line or specialty of/in carved work.
- Develop a business plan for a furniture related business.

2. Catalog Description

Carving Technology prepares students to make a living at woodcarving. Students explore use of tools and techniques used in carving wood as it applies to furniture and architectural millwork. Students will begin by gaining skill in simple layouts and learn to sharpen and maintain tools. As student progresses, both low and high relief carving as well as incised lettering will be mastered. Period furniture and architectural carvings are eventually mastered. Students will be qualified carvers in furniture shop or prepared to start own business.

3. Program Requirements

**Carving Technology**
A.A. Degree Major or Certificate of Achievement
Core Course Requirements

- CFT 100 Fundamentals of Woodworking 4
- CFT 108 Business Woodworking 2
- CFT 118 Furniture Design Development 2
  or
- CFT 153 Studio Furniture Design I 2
- CFT 149 Hand Joinery I 2
- CFT 187 Introduction to Carving 2
- CFT 188 Intermediate Carving 2
- CFT 189 Advanced Carving 2
- CFT 195 Finishing Technology/Touch-Up and Repair 2
Electives (Select 4 units)
CFT 142 The Art and Craft of Planemaking  2
CFT 143 Decorative Box Making  2
CFT 144 Production Furniture Making (Toys)  1
CFT 170 Workbench Design and Production  2
CFT 173 Bamboo Fly Rod Building  2
CFT 105 Machine Woodworking/Furniture  4
CFT 110 Machine Tool Joinery I  4
CFT 111 Machine Tool Joinery II  4

Total Major Units  22
Plus Minimum General Education Units*  38
Total Degree Requirements  60

* See attached Palomar College Associate Degree Requirements

4. Background and Rationale

Currently the CFT discipline includes 3 degree programs and over 50 individual courses. The current degrees include Cabinet Making and Millwork, Furniture Making Technology, and Cabinet and Furniture Design. The advisory committee endorsed a curriculum revision at its meeting of April 11, 2011. The revision recommendation resulted in the development of seven new certificates/degrees and will phase out two of the current degree programs.

- The Cabinet Making and Millwork degree has been revised and will continue to be offered in both forms while the old version is phased out.
- The current Furniture Making Technology degree will be phased out and replaced with two new degree programs, Case Furniture Construction/Manufacturing and Table and Chair Manufacturing.
- The current Cabinet and Furniture Design Degree will be phased out.
- Four new degrees will be offered which combine and focus on mostly established coursework and a few newly accepted courses. They are Carving Technology, Lathe Turning Technology, Veneering Technology and Woodworking Skills Technology.
- A new degree Guitar Making Technology incorporates several established courses and several newly accepted courses.

The curriculum revision plan was influenced by several factors.

- The mission of the CFT discipline, “Our mission is to help prepare our students to make a living at woodworking.”
- Title 5 guidelines recommend certificate/degree programs be attainable in 4 semesters. Each of our current degree programs is extremely comprehensive and thorough, so much so that many of our students currently find it challenging to finish a certificate program in two years, let alone an A.S. degree. Therefore, streamlining the coursework with the new degrees will help students focus on a clear path to completion.
- According to Educational Portal.com 30% of woodworking professional are self-employed. Therefore all of the proposed degree programs except one contain a
woodworking business class to help students start their own business or gain the skills needed to work as a business manager.

- During periods of economic downturn, statistics show that woodworking businesses with specialization have maintained sustained profitability because there are an increased number of renovations, remodels and repairs. Therefore all of the newly proposed degree programs have a specialty focus.

- All of the proposed degree programs except one contain a design course to give students a foundational understanding of design, which spans from period furniture to contemporary and helps students develop and implement design concepts.

- In summary, advisory committee was presented with concepts of focused coursework for degree programs and recommend discipline move forward to adopt the degrees outlined here. The reworked and new programs accomplish several benefits, which include: 1) a focused streamlined path to completion, which students can attain in 4 semesters, 2) maintaining a strong foundation in fundamental woodworking, finishing, design, and business, and 3) emphasizing a specialty focus which is marketable to employers or customers.

Criteria B. Need

5. Enrollment and Completer Projections
   Number of sections or course courses to be offered annually
   - Of the Core course listed in Criteria A Section 3, approximate 19 sections of these course will be offered annually
   Annual enrollment
   - Each section typically has a 25 student class maximum x 19 sections = 475 duplicated enrollment
   - Unduplicated enrollment is approximately 100 individual students
   - Number of anticipated program completers at the end of year two of the program is approximately 16
   - Number of anticipated program completes at the end of the fifth year is approximately 40.

6. Place of Program in Curriculum/Similar Programs

   The Associate of Science degree in Carving Technology will complement the 7 degrees being proposed, as well as the current degrees, in the Cabinet and Furniture Technology department at Palomar College (see Criteria A Section 4). This new degree will not only be a stand-alone degree, but the faculty of the Cabinet and Furniture Technology department envision students earning one of the currently existing degrees and then, by taking a few additional courses, be able to also earn the proposed Associate of Arts degree in Carving Technology. This will prepare that student to be even more employable in the local job market.

What related programs are offered by the college?
- This program will join 7 other degrees proposed by the Cabinet and Furniture Technology department (see Criteria A Section 4). It will provide a specialized training and will not replace any other current degree program.

Will this new program fulfill a current need?
- Yes, carving courses have long been a mainstay in the Cabinet and Furniture Technology discipline, creating this degree program allows students with
carving skills and passion a clear path to completion of this specialized degree. In the woodworking industry specialization has sustained profitability. Southern California has many custom furniture manufactures and small shop furniture makers, which could support the need for a carver on staff or a contracted carver for custom work. The Cabinet and Furniture Technology Advisory Committee have verified the need for this program.

Will there be courses in common shared by this program and another existing program?
- Yes, other degree programs share 7 courses required for the core of this degree.

What enrollment changes will program create?
- Due to the demand for this degree program, we anticipate a slight increase in enrollment. We also anticipate that existing students will enroll in these carving courses to supplement their current degree or career goals.

Will it accommodate an overflow or attract a new market?
- Yes, the new program will attract people who have an interest in making a living in wood carving either as an employee in the industry or as a small business owner. And, the new program will serve existing students by enhancing their skills for future jobs.

Will it be possible for students to move between this program and another program?
- Yes, since several of the required core courses in this major are common to other Cabinet and Furniture Technology degree cores, it will be very easy for students to move between majors.

Will programs share resources?
- Yes, this new program will share the existing facilities, faculty, staff, supplies, and equipment with other degrees and courses in the Cabinet and Furniture Technology discipline.

7. Similar Programs at Other Colleges in Service Area

Locally, there are no college programs similar to Carving Technology offered.

There are two wood working related programs offered in southern California:

- Cerritos College in Norwalk California is approximately 85 miles north of San Marcos and offers three certificate/degrees in the discipline. They are: Cabinet Making Furniture Making Comprehensive Wood Working

- For those who want to continue their studies in this industry San Diego State University in San Diego California approximately 35 miles south of San Marcos offers a B.A. in Furniture Design.

8. Labor Market Information & Analysis (CTE only)

Students completing the Associate of Science degree in Carving Technology will have a solid foundation in woodworking technology and in business development and operational practices, as well as a marketable specialty. Students completing any of the seven new
The Associate of Science degree in Carving Technology is most closely aligned to; Cabinetmakers and Bench Carpenters, Craft Artist, Fine Artists, including Painters and Sculptors, Furniture Finishers, Woodworking Machine Workers, and Woodworkers, All others.

The EDD lists the California annual average openings and median hourly rate as follows (2008 to 2018):

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Openings</th>
<th>median $/hr</th>
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<tbody>
<tr>
<td>Cabinetmakers and Bench Carpenters</td>
<td>330</td>
<td>$15.30</td>
</tr>
<tr>
<td>Craft Artists</td>
<td>30</td>
<td>$25.43</td>
</tr>
<tr>
<td>Fine Artists, Including Painters and Sculptors</td>
<td>30</td>
<td>$26.60</td>
</tr>
<tr>
<td>Furniture Finishers</td>
<td>90</td>
<td>$13.35</td>
</tr>
<tr>
<td>Musical Instrument Repairers and Tuners</td>
<td></td>
<td>$15.68</td>
</tr>
<tr>
<td>Sawing Machine Workers</td>
<td>40</td>
<td>$13.86</td>
</tr>
<tr>
<td>Teachers, Trade and Technical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vocational Education Teachers, Secondary School</td>
<td>160</td>
<td>$37.06</td>
</tr>
<tr>
<td>Woodworking Machine Workers, Except Sawing</td>
<td>160</td>
<td>$12.48</td>
</tr>
<tr>
<td>Woodworkers, All Other</td>
<td>130</td>
<td>$10.44</td>
</tr>
<tr>
<td>TOTAL related openings</td>
<td>970</td>
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According to the EDD employment in this field is sensitive to economic downturns. However, “opportunities should be available for workers who specialize in such items as custom cabinets.” “Demand for Cabinetmakers and Bench Carpenters will stem from increases in population, personal income, and business expenditures, in addition to the continuing need for repair and renovation of residential and commercial properties.”

The EDD job outlook data can be supplemented by the following current and local research done on 11/2/2011

A Google search for “woodworking jobs Ca.” led to the following results: on 11/2/2011
Woodweb.com listed 8 jobs openings in the last 2 weeks in southern California. 3 listings in the last 3 days.
Indeed.com/jobs listed 42 job openings in California. Approximately 50% of which were posted in the last 2 weeks.
Simplyhire.com listed 162 job openings in California although approximately only 60% of those were for medium to highly skilled/experienced positions.
Careerbuilder.com listed 6 openings in California and 3 in southern California in the last 30 days.
All of the openings appeared to be for medium to highly skilled/experienced wood workers except where noted above.

A San Diego Craigslist search in jobs for cabinet produced 16 positions offered in cabinet making, furniture making, or a closely related field. All positions appeared to be for skilled wood workers or for management of skilled workforce. Search was done on 11/2/2011

Graduates of the Palomar College CFT discipline are not easily categorized by the EDD occupation job titles. The CFT programs not only prepare graduates for employment but the programs are also designed to prepare graduates for self-employment, as 30% of woodworkers are self-employed (see Criteria A Section 4). As stated by the EDD specialization tends to afford more opportunities for employment. It would be also true that self-employed who specialize will also be afforded more work opportunities.

9. Employer Survey (CTE only)

The Woodworking program at Palomar College is well established; therefore, no employer survey was conducted to develop this program. As emphasized earlier, this new program is a substantial revision of existing curriculum. The revision was developed with substantial input from the Industry Advisory Committee, which represents local employers and former students who are self-employed. The major objectives were to create a more streamlined path to completion while simultaneously proving the foundational skill students need to seek employment.

10. Explanation of Employer Relationship (CTE only)

The Palomar College CFT discipline maintains an excellent reputation in industry as a leader in woodworking training. A student with a degree or certificate from the CFT discipline is thought of as a highly skilled craftsman and would be considered the best of the best among woodworkers and employers. CFT maintains many contacts with industry in all areas of study that serve as Advisors or Patrons and support the programs and students with scholarships and employment. Some of the areas represented by industry support include: Cabinet makers, Lathe turners, Furniture makers, Furniture finishers, Tool and equipment retailers, Lumber retailers, Finishing supply and equipment retailers, Guitar manufactures, Veneering specialists, and many more.

As stated 30% of woodworkers are self-employed and our programs are designed to prepare our graduates to open their own business. Many of them do start a business and when they are in need of employees they look to our program again and again and hire our graduates.

In summary the employer pool in quite diverse for our graduates. Most of our graduates will work for a small company or become self-employed. All of our graduates have a solid fundamental background and employers recognize this. Our graduates who also have specialized skills are more likely to be employed. Employers value our graduates and seek them out.

11. List of Members of Advisory Committee (CTE only)

Industry Members:

Gary Stodghill, Owner, Stodghill Cabinetry, Vista Ca.
Ken Haines, Turner, member Art in Wood, Spanish Village art center, San Diego Ca.
David Yendes, Owner, David Yendes Sculpture, faculty El Camino High School
Jerry Beaudry, Owner, Beaudry Woodwork, San Diego Ca,
Brendan Mathews, Owner, Foothill Cabinetry, Vista Ca.
Jeff Scott, Owner, Illusion Guitars, Fallbrook Ca.
Mike Durlak, Manager, Rockler Woodworking and Hardware, San Diego Ca.
Faculty/Administrative Members:

Chris Feddersohn, Professor, Cabinet and Furniture Technology
Dave Thompsen, Professor, Cabinet and Furniture Technology
Jack Stone, Professor, Cabinet and Furniture Technology
Philip Goetsch, Facilities Manager, Cabinet and Furniture Technology

12. Recommendations of Advisory Committee (CTE only)

On April 15, 2011, the Cabinet and Furniture Technology Advisory Committee endorsed the development of the curriculum for the 7 new degree proposals at Palomar College.

- Case Furniture Construction/Manufacturing
- Table and Chair Manufacturing
- Carving Technology
- Lathe Turning Technology
- Veneering Technology
- Woodworking Skills Technology
- Guitar Making Technology

Advisory committee meeting minutes are attached.

Criteria C. Curriculum Standards

13. Display of Proposed Sequence

1st Semester:
- CFT 100 Fundamentals 4
- CFT 187 Intro to Carving 2
- Elective 2
- General Education 8

2nd Semester:
- CFT 195 Finishing 2
- CFT 188 Inter. Carving 2
- General Education 8

3rd Semester:
- CFT 189 Adv. Carving 2
- Elective 2
- General Education 10

4th Semester:
- CFT 108 Business 2
- CFT 118 Design Development 2
  or
- CFT 154 Furn. Design 2
- General Education 10

Total Core Units 22

Plus General Education required units 38

Total Degree Units 60

14. Transfer Applicability (if applicable)
The Associate of Arts degree in Carving Technology currently has no transfer degree possibilities with colleges or universities in California.

Attachment: Outlines of Record for Required Courses

Criteria D. Adequate Resources

15. Library and/or Learning Resources Plan

The college’s Curriculum Committee approves all new degrees and courses at Palomar College. During that process, the library reviews the courses and determines whether there are sufficient resources to support them. We have consulted the Acquisitions Librarian and determined that there are sufficient resources to support this program. The CFT program also has an extensive collection of resources in its own “mini library” to compliment the District’s resources.

16. Facilities and Equipment Plan

The Associate of Science degree in Carving Technology will not need any additional facilities or equipment that the current Cabinet and Furniture Technology program does not already have in place. Current equipment, supplies, and facilities will be shared amongst all current degrees and courses.

17. Financial Support Plan

The Associate of Science degree in Carving Technology will not need any additional budget monies that the current Cabinet and Furniture Technology program does not already have in place. Support for the new degree program will come from existing budgeted monies supplied to the Cabinet and Furniture Technology program.

18. Faculty Qualifications and Availability

The college has a Faculty Hiring process and a Staffing Plan that proposes the hiring and replacement of faculty. The Cabinet and Furniture Technology program will submit requests for consideration in these processes as needed. No specific new staffing will be requested as a result of this new program proposal

Criteria E. Compliance

19. Based on model curriculum (if applicable)

There is no model curriculum available for this degree.

20. Licensing or Accreditation Standards

There is no licensing or accreditation standards need for this degree.

21. Student Selection and Fees

Aside from ordinary enrollment fees, students are expected to pay for the materials used in their projects and to pay a lab fee. The total average combine cost per class is approximately $65 to
$95 dollars. Students who are having financial difficulties may be awarded a scholarship to help offset the extra costs. Our staff, our patrons, and our former students have set up scholarship funds in order to help needy students. Approximately 15 to 20 students per semester are awarded some financial aid from these funds.