When you first begin the joule course building process, there are many key factors to take into account, such as the pedagogical goals of the course as well as the audience it will serve eventually.

We have outlined various course design pathways to consider as well as the recommended Moodle and joule resources and activities that can support your particular instructional needs. Using the course design pathway below, choose a path that most closely aligns with the purpose of the course to see what recommendations are right for you.

Choose Your Course Design Path:
<table>
<thead>
<tr>
<th>PATHWAY</th>
<th>RESOURCES</th>
<th>ACTIVITIES</th>
<th>BENEFITS</th>
</tr>
</thead>
</table>
| Commons Repository  |  • Files or Folders for PDF uploads  
  • Page (Web, Text) for online HTML content  
  • Gradebook feature for manual grading based on assignment submissions |  • Assignments—online submissions, upload files for simple assessment tasks  
  • Book feature for creating chaptered content that can be downloaded and printed |  • Instructors can add lecture based material, receive student assignments and submit grades online  
  • Students can download course materials, submit assignments, and monitor their grades online |
| Student-Centered Environment  |  • RSS feed blocks to provide dynamic content  
  • Embedded multimedia resources  
  • Virtual Student Lounge chat feature for informal conversations and tutoring |  • Glossary to provide student-generated content  
  • Multiple forum types with use of ratings for discussion, case studies, and collegial debates  
  • Wiki and database to create shared content and encourage group work  
  • Workshop for peer reviewing and self-assessment opportunities  
  • Grouping feature to provide smaller discussion sections and partnered work  
  • Online text assignment and journal for reflective work with authentic instructor feedback  
  • Timed release of activities and/or hidden sections to manage student workload  
  • eFolio activities to publish individual and group learning and achievements for an audience beyond the LMS walls  
  • Blogs for informal interaction in the course |  • Measure student participation and engagement through online learning tools  
  • Meet students in a familiar, informal learning environment  
  • Utilize web 2.0 technologies to incite learning and motivate student participation  
  • Teachers can moderate and facilitate student interactions from a place of greater equity  
  • 24/7/365 access  
  • Utilize inquiry based pedagogy in a virtual setting – allow for student directed activities, group work, self-reflection and peer assessment |
### PATHWAY

**Change to Virtual Teaching Process**
- Harness virtual technologies to support new pedagogical methods

**Instructor Professional Growth**
- Improve instructor skills with training situations and accreditation programs

### RESOURCES

- Calendar for course schedule
- Chat room for Virtual Office hours instead of in-office hours
- Upload of course syllabus and resources
- Gradebook feature instead of manual spreadsheet
- Page (Web, Text) for online HTML content

### ACTIVITIES

- Assignments (online, upload files) to replace paper grading and collection processes
- Forums and groups for tutoring and discussions
- News Forum to replace announcement boards
- Edit profile and introductory forum as icebreaker activities
- Book feature for lengthier content
- Lesson for interactive content with questions
- Workshop for peer review

### BENEFITS

- Maximize efficiency and green technology
- Store and replicate courses and assignments easily
- Utilize web 2.0 technologies to promote learning and student collaboration
- Reach remote students
- Provide remediations for students at different learning levels
- Use for homework support and grade monitoring
- 24/7/365 accessibility for students

### PATHWAY

**RSS feed blocks to provide dynamic content**
- Embedded multimedia resources
- Virtual Student Lounge chat feature for informal conversations and tutoring
- EQUELLA or digital repository for shared instructor content
- Grading of assignments with authentic instructor feedback
- Outcomes and scales in gradebook
- Reports to track user progress

### RESOURCES

- Choice activity to get simple feedback
- Feedback surveys for more in-depth, customized feedback
- Moodle Learning surveys to find out about different learning styles and inform pedagogy
- Quizzes and quiz data to determine instructional effectiveness

### ACTIVITIES

- Create a learning environment that provides ample opportunity for student input and feedback –
- Support teacher training with pace, delivery, resources, activities, and instructional outcomes
- Supports implementation of best practices and individuated instruction in a non-threatening environment
- Draw from a pool of resources and collective knowledge of other instructors
- Create training courses sequentially and track teacher performance from start to completion of the program
### PATHWAY
New Teaching Methodologies

Create online learning environments founded on Moodle’s social constructivist principles.

### RESOURCES
- Embedded multimedia resources
- Virtual Student Lounge chat feature for informal conversations and tutoring
- Gradebook results and outcomes can be customized for individual assessment
- Reports to track user progress

### ACTIVITIES
- Wiki for group content creation
- Forums with ratings and groupings features for dynamic student interaction
- eFolio activities for personal and group portfolios that showcase achievements that extend beyond the LMS walls
- Database to collect structured information and peer reviews
- Blog to support self-reflection across multiple courses
- Workshop to support peer and self-assessment
- Timed release activities to manage student learning
- SCORM content that is highly interactive

### BENEFITS
- Utilize cutting edge technology
- Integrate the latest advances in web 2.0
- Maximize opportunities for learners while fostering continual professional development for instructors

---

### PATHWAY
On-Demand

Create a self-paced course without the need for a facilitator.

### RESOURCES
- Calendar to highlight the start and end date
- Pages to provide access to information within the course walls.
- Flexpage format to control over how and where content is displayed.
- Embedded multimedia resources
- Grade to check automated assignment completion

### ACTIVITIES
- SCORM for self-paced activities
- Glossary to provide definitions of technical terms
- Lesson to present structured, self-paced display of content with questions with automated grading
- Quizzes with different question types that are graded automatically
- Certificates with a minimum required percentage course grade to issue certificate of completion

### BENEFITS
- With students’ busy schedules, having access to course information on demand is proving to be an essential tool for success
- Promote self-paced, authentic learning
- Supports students who may be juggling multiple responsibilities
- Reduce instructor costs
- Offer courses to a larger audience
- Track feedback and results of student performance and progress

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<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Remote Environment</td>
<td>• Calendar to highlight the start and end date &lt;br&gt;• Messages to communicate remotely with users &lt;br&gt;• The directory resource to display folders with Documents, Presentations, Graphics, Audio Files, and Video &lt;br&gt;• Link to files and URL &lt;br&gt;• Labels allow instructors to illustrate courses &lt;br&gt;• Course formats to organize content and assignments according to deadlines &lt;br&gt;• Gradebook for ongoing access to course grades</td>
<td>• Wiki and forum groups for group collaboration and assessment &lt;br&gt;• eFolio activities for personal and group portfolios that showcase achievements that extend beyond the LMS walls &lt;br&gt;• Database to collect structured information and peer reviews &lt;br&gt;• Blog to support self-reflection across multiple courses &lt;br&gt;• Chat for informal peer interaction &lt;br&gt;• Workshop to support peer and self-assessment &lt;br&gt;• Timed release activities and/or hidden sections to control the pace of student learning &lt;br&gt;• SCORM for self-paced activities &lt;br&gt;• Lesson to present structured, self-paced display of content with questions and automated grading</td>
<td>• Instructors are able to provide materials, lectures, tests, and assignments that can be accessed by students at any time &lt;br&gt;• Meet the needs of clients by offering flexible trainings &lt;br&gt;• Allow for instructors to work remotely and manage larger course loads &lt;br&gt;• Reduce costs of training and instructor facilitation by replacing f2f workshops with virtual courses</td>
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<tbody>
<tr>
<td>Synchronous Environment</td>
<td>• Calendar to highlight time and date for webinars and chat sessions &lt;br&gt;• Integrate webinar/teleconference application &lt;br&gt;• Messages to communicate instantly with online users &lt;br&gt;• Course formats to organize content and assignments according to live sessions &lt;br&gt;• Gradebook for ongoing student access to course grades</td>
<td>• Chat to allow multiple users to log in and interact &lt;br&gt;• Attendance to register the presence of students &lt;br&gt;• Face-to-face to keep track of in-person trainings which require advance booking &lt;br&gt;• Wiki and forum groups for group collaboration and assessment &lt;br&gt;• Timed release of activities, hidden sections, and/or weekly format to control pace of student learning &lt;br&gt;• Lesson to present structured, time sensitive content with questions &amp; automated grading &lt;br&gt;• eFolio activities for personal and group portfolios that showcase achievements</td>
<td>• Instructors provide materials, lectures, tests, and assignments that are enhanced with synchronized facilitation and can be accessed by students at any time &lt;br&gt;• Meet the needs of clients by offering flexible trainings that do not sacrifice instructor presence &lt;br&gt;• Allow for instructors to work remotely and manage larger course loads &lt;br&gt;• Reduce costs of training and instructor facilitation by using virtual courses &lt;br&gt;• Encourage interactivity, participation, and collaboration in an online setting</td>
</tr>
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### K-12 Primary Education
Create online courses custom-tailored for elementary and middle school students

<table>
<thead>
<tr>
<th>PATHWAY</th>
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<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-12 Education</td>
<td>Calendar for course schedule and school activities</td>
<td>Assignment activity can work as a drop box</td>
<td>In primary education settings, Moodle can be particularly useful as a safe entry-point to the online world</td>
</tr>
<tr>
<td></td>
<td>My Courses block to ease student navigation</td>
<td>Blog can work as a channel of communication for both students and parents</td>
<td>Promote a more social, collaborative model of learning for elementary aged students</td>
</tr>
<tr>
<td></td>
<td>Course formats to organize work for children on a daily basis</td>
<td>Announcements can send messages to students and parents for projects and homework</td>
<td>Increase parent contact and involvement with classroom activities</td>
</tr>
<tr>
<td></td>
<td>Link to files and URLs</td>
<td>Forums and groups for tutoring and discussions</td>
<td>Encourage student participation in a familiar, non-threatening virtual learning space</td>
</tr>
<tr>
<td></td>
<td>Labels allow instructors to illustrate courses</td>
<td>Choice to run polls, elections, or elicit general student feedback</td>
<td>Familiarize students with standardized testing procedures from within the course</td>
</tr>
<tr>
<td></td>
<td>Themes can change screen layout and dimensions to be child-friendly</td>
<td>Lesson to scaffold content and questions</td>
<td>Tie activities with grading procedures aligned with state standards and outcomes for particular grade levels</td>
</tr>
<tr>
<td></td>
<td>Embedded multimedia resources</td>
<td>Glossary and Database to provide student-generated content and language learning support</td>
<td>Track and record a long-range history of student performance</td>
</tr>
<tr>
<td></td>
<td>Virtual Student Lounge chat feature for informal conversations and tutoring</td>
<td>Games to promote informal learning</td>
<td>School-wide platform for communication and building</td>
</tr>
<tr>
<td></td>
<td>Gradebook results and outcomes can be customized for individual assessment</td>
<td>Flash Card Set for testing preparation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reports will help keep track of individual user progress</td>
<td>Quizzes with multiple choice, true-false, calculated math questions, and short answer questions</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>eFolio activities to publish individual and group learning and achievements with an audience beyond the LMS walls</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>SCORM to include easy insertion of engaging learning objects by using interactive Flash presentations</td>
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<tr>
<td></td>
<td></td>
<td>Timed release of activities and/or hidden sections to control pace of student learning</td>
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<tr>
<td></td>
<td></td>
<td>Mentees block for mentor/parent view of the course</td>
<td></td>
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</tbody>
</table>
# K-12 Secondary Education

Create online courses custom-tailored for high-school level students

## Pathway

- Calendar for course schedule and school activities
- My courses block can ease student navigation.
- Link to files and URL
- Labels allow instructors to illustrate courses
- Themes can change screen layout and dimensions
- Embedded multimedia resources
- Virtual Student Lounge chat feature for informal conversations and tutoring
- Language settings to promote second language learning
- Gradebook results and outcomes can be customized for individual assessment
- Reports to help track individual user progress
- Pages to provide access to information within the course walls
- Attendance to provide tracking of student participation

## Resources

- Create online courses that will increase graduation rates and meet State Standards
- Utilize Moodle/joule to provide a place for teachers to explore and implement different teaching methods
- Exposure to online learning during primary education can be extended into late childhood and adolescent years, particularly with social and collaborative learning features.
- Online learning supports remediation and self-paced exploration for accelerated students
- College preparatory coursework and introduction to virtual learning that will be a part of the higher education experience
- Utilize for advisory classes, counseling and mentoring programs
- School-wide platform for communication and building school community
- Familiarize students with standardized testing procedures from within the course
- Tie activities with grading procedures aligned with state standards and outcomes for particular grade levels
- Track and record a long-range history of student performance

## Activities

- Feedback or questionnaire to create surveys using a variety of question types for the purpose of gathering data from users
- Quizzes give the possibility of asking students different types of questions and grade automatically
- Online text and Journal for reflection
- Forums provide real interaction between parents, students, teachers and school directors or administrators
- Mentees block for mentor/parent view of the course
- Lesson for scaffolding of content and questions
- Choice to get a quick idea of student preferences
- Glossary to provide interactive subject matter vocabulary and second language learning support
- Chat for informal interaction
- Workshop to support peer and self-assessment
- Timed release of activities and/or hidden sections to manage pace of student learning
- eFolio Assignment allows a student to submit an eFolio page as a response to an assignment that can be directly graded in the course

## Benefits

- K-12 Secondary
- Education
- Create online courses custom-tailored for high-school level students
<table>
<thead>
<tr>
<th>PATHWAY</th>
<th>RESOURCES</th>
<th>ACTIVITIES</th>
<th>BENEFITS</th>
</tr>
</thead>
</table>
| Higher Education | • Embedded multimedia resources  
• Virtual Student Lounge chat feature for informal conversations and tutoring  
• Gradebook results and outcomes can be customized for individual assessment  
• Reports to help tracking of individual user progress  
• The directory resource to display folder (and its sub folders) from course file area. Students can then browse and view all those files.  
• Attendance to allow tracking of student participation | • Feedback or Questionnaire to create surveys using a variety of question types, for the purpose of gathering data from users  
• Quizzes offer the possibility of different types of questions and are graded automatically  
• Online text assignment or Journal to allow for student reflection  
• Multiple forum types with possible use of ratings to encourage discussion and present case studies, debates, and interactive content  
• Workshop to support peer and self-assessment  
• Timed release of activities, hidden sections, and/or weekly format to pace student learning  
• Wiki for group collaboration and assessment  
• Database to collect structured information and peer reviews  
• Online lessons, assignments and quizzes to perform differentiated forms of assessment  
• eFolio Assignment allows a student to submit an eFolio page as a response to an assignment | • Create a social environment where class discussions can continue beyond the lecture hall.  
• Professors can track student participation and create a grading structure based on each individual’s involvement  
• Students have greater access to course materials, assignments, and grading  
• Self-paced learning is supported and student accountability encouraged  
• Allow for a more personalized learning experience by breaking larger courses into smaller groups to encourage student participation  
• Provide authentic, timely instructor feedback on a more regular basis  
• Encourage student feedback about the course and integrate into the course creation cycle  
• Reduce student expenses by providing a centralized materials repository and utilizing links to web resources  
• Utilize web 2.0 technologies, integrate multimedia into course content with ease |
### PATHWAY

- **Government & Non-Profit Organizations**

Create courses to support training, communication within and between departments, and expand the service-based network

### RESOURCES

- Calendar for community events and training schedule
- Embedded multimedia resources
- Flexpage format to control how and where content is displayed
- Themes can be developed to give your organization’s site a truly unique look and feel
- Customization services can help you to achieve your training needs
- Conduit/Report to track results and gather important funding data
- downloadable files or folders for offering to your clients
- RSS feeds for streaming current, relevant content
- Green-friendly presentation of resources: page, book, PDFs, word docs, Power Points, etc.

### ACTIVITIES

- Forums and wikis to create collaborative training environment
- Edit profile and introductory forums for icebreaker activities
- Chat for informal online interaction
- Online lessons, assignments and quizzes allow for employee assessments
- Certificates to grant training completion and certification

### BENEFITS

- End-users can easily communicate and collaborate with their peers to expand their networks and enhance their training experience
- joule can help manage company hierarchy and standardize communication accordingly
- Encourage clients and offer greater services via the Moodle platform
- Create classroom environments to manage client needs
- Keep costs of service low by reproducing multiple instances of trainings

### PATHWAY

- **Corporate Settings**

Create environments for employee training, professional development, and performance tracking. Offer online services for clientele

### RESOURCES

- Calendar for company events and training schedule
- Flex Page format to control how and where content is displayed.
- Themes can be developed to give your organization’s site a truly unique look and feel
- Attendance allows tracking of employee course completion
- Customization services can help you to achieve your training needs
- Integrate applications to create powerful assessment and tracking tools

### ACTIVITIES

- Forums and wikis to create collaborative training environment
- Chat for informal peer conversation
- Online lessons, assignments and quizzes to perform employee assessments
- Certificates to grant training completion and certification
- Groups to make interchangeable content, while reaching divergent audiences
- Choice and Feedback options to gather and offer timely feedback

### BENEFITS

- Support employee collaboration in training exercises and assignments
- Create effective training and certification classes
- Track employee performance
- Offer self-paced and ongoing professional development
- Offer customized services for clients
- Create a database of feedback gathered from client surveys and input
- Human resources can utilize courses for onboarding, orientation, employee reviews, etc.
- Charge for specialized training and services - generate revenue via new channels