

Critical Skills

A Guide for University Students

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Kingston University London*

www.dorak.info

Outline

- **What are critical skills and why do you need them?**
- **Critical (soft) skills vs academic (hard) skills**
- **Critical thinking and other critical skills**

Career Readiness



Career Readiness

THE CHRONICLE OF HIGHER EDUCATION

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COMMENTARY



How to Do a Better Job of Preparing Students for Life After College



Tim Foley for The Chronicle

By *Mark Peltz* | SEPTEMBER 10, 2017 [PREMIUM CONTENT FOR SUBSCRIBERS. SUBSCRIBE TODAY](#)

Critical Skills = *sine qua non*

Don't be obsessed with 'threshold qualities' that are the minimum requirements to be eligible for a job, it is '*sine qua non*' qualities, the indispensable and essential ones, that will get you the job (and a good job).

Critical thinking, problem solving, and creativity are the most important '*sine qua non*' qualities.

Get into the growth mindset mode and start developing these skills now.



sine qua non

/ˌsɪni kwɑː ˈnəʊn, ˌsaɪni kweɪ ˈnɒn/

noun

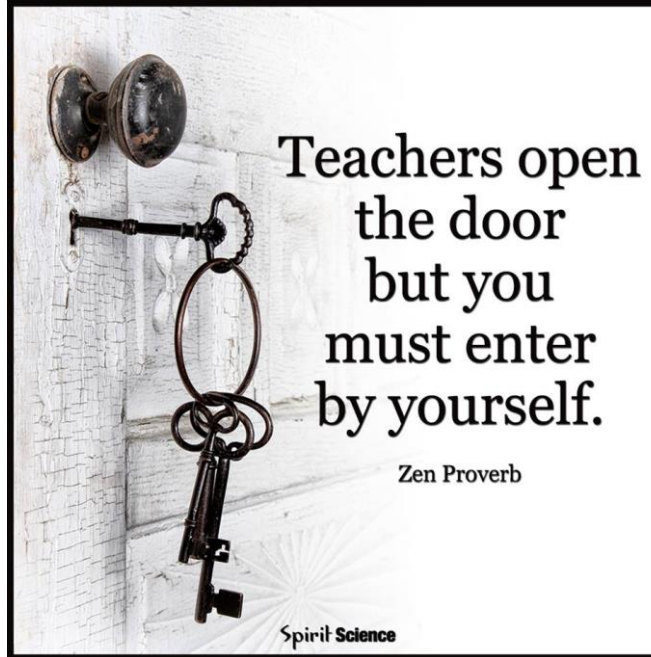
an essential condition; a thing that is absolutely necessary.
"grammar and usage are the sine qua non of language teaching and learning"

Teaching Wisdom over Knowledge

**I cannot teach
anybody anything.
I can only make
them think.**

Socrates

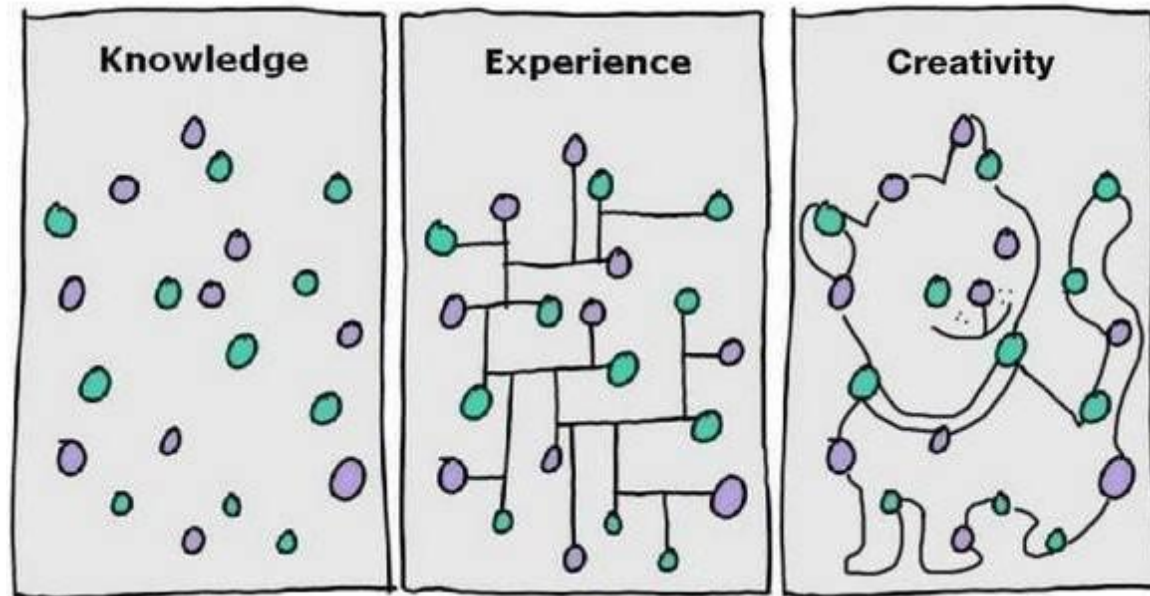
Spirit Science



**We cannot teach people
anything; we can only help them
discover it within themselves.**

Galileo Galilei

Teaching Wisdom over Knowledge



In a training session, the trainer asked the audience "knowledge is power, how many of you agree" almost everyone agreed, the trainer said "not true, knowledge is not power, applied knowledge is power". No matter what we learn, the ultimate test of our knowledge is in our experience. Theoretical knowledge is of no use unless it is backed by practical experience. That is the essence of education.

Teaching Wisdom over Knowledge

Literacy is Not Enough

21st Century Fluencies for the Digital Age

Lee Crockett and Others

[View More by This Author](#)

This book is available for download with iBooks on your Mac or iOS device. Multi-touch books can be read with iBooks on your Mac or iOS device. Books with interactive features may work best on an iOS device. iBooks on your Mac requires OS X 10.9 or later.



Description

It is no longer enough that we educate only to the standards of the traditional literacies. If students are to survive, let alone thrive, in the 21st-century culture of technology-driven automation, abundance, and access to global labor markets, then independent thinking and its corollary, creative thinking, hold the highest currency.

To be competent and capable in the 21st century requires a completely different set of skills. These 21st-century fluencies (Solution Fluency, Information Fluency, Creativity Fluency, Media Fluency, Collaboration Fluency, and Global Digital Citizenship) are identified and explained in detail in this book as processes that can be learned and applied by students.

Literacy Is Not Enough goes beyond "why" education needs to change and focuses on "how" to change by identifying [...More](#)

Customer Reviews

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by Rootytoot

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Available on iPad, iPhone and Mac.

Category: Education

Published: Feb 05, 2013

Publisher: 21st Century Fluency

Project

Seller: 21st Century Fluency

Project

Print Length: 184 Pages

Language: English

Version: 1.0

Requirements: To view this book, you must have an iPad with iBooks 2 or later and iOS 5 or later, or an iPhone with iOS 8.4 or later, or a Mac with OS X 10.9 or later.

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The Importance of Mindset



FIXED vs GROWTH MINDSET

FIXED MINDSET
INTELLIGENCE IS SOMETHING YOU HAVE OR DON'T HAVE

With a FIXED mindset we tend to:

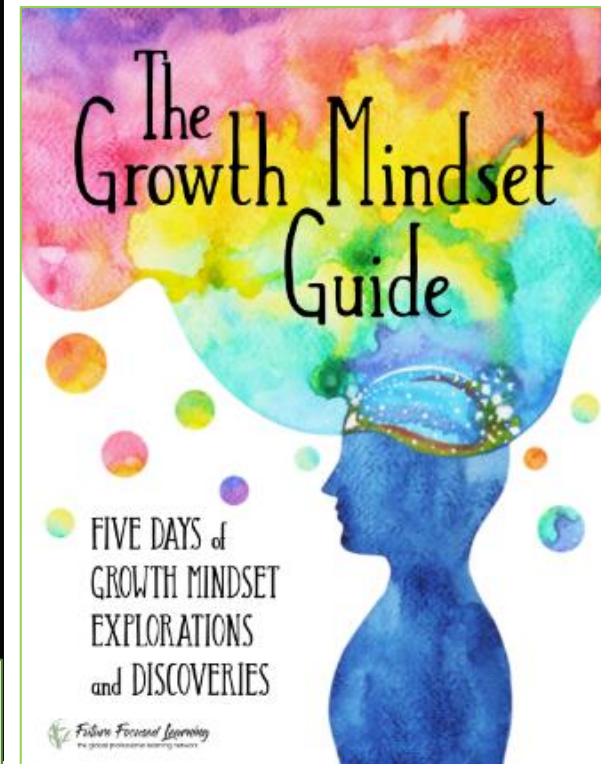
- Avoid taking on challenges
- Quit or give up easily
- Be highly self-critical
- See effort as pointless
- Disregard criticism
- Resent the success of others
- Criticize and judge others
- Argue for our limitations

GROWTH MINDSET
INTELLIGENCE IS SOMETHING YOU ARE ABLE TO DEVELOP

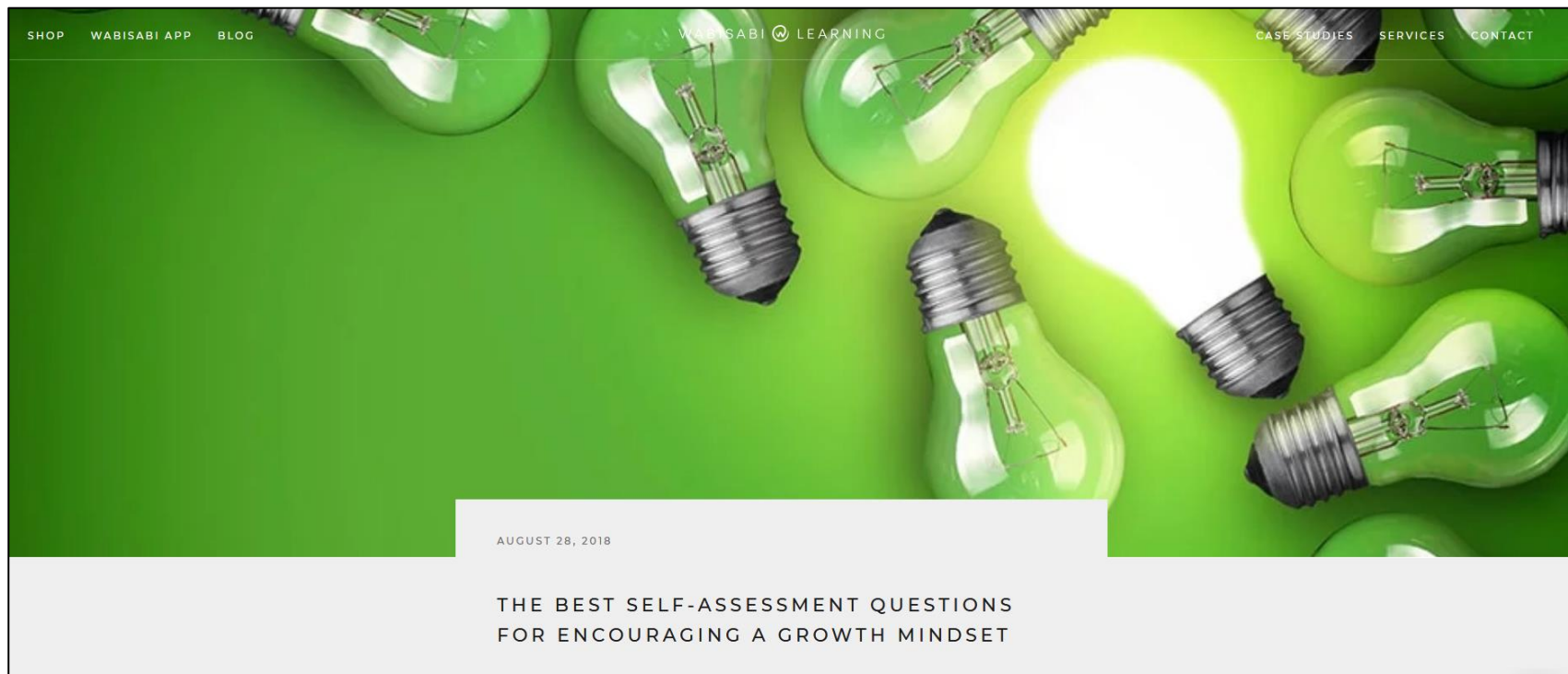
With a GROWTH mindset we tend to:

- Embrace any challenge
- Never give up
- Practice self-compassion
- See effort as a journey
- Learn from all criticism
- Be inspired by others' success
- Help and nurture others
- Believe in possibilities

Without having growth mindset, you cannot acquire the essential skills necessary for success in your career and life!



The Importance of Mindset

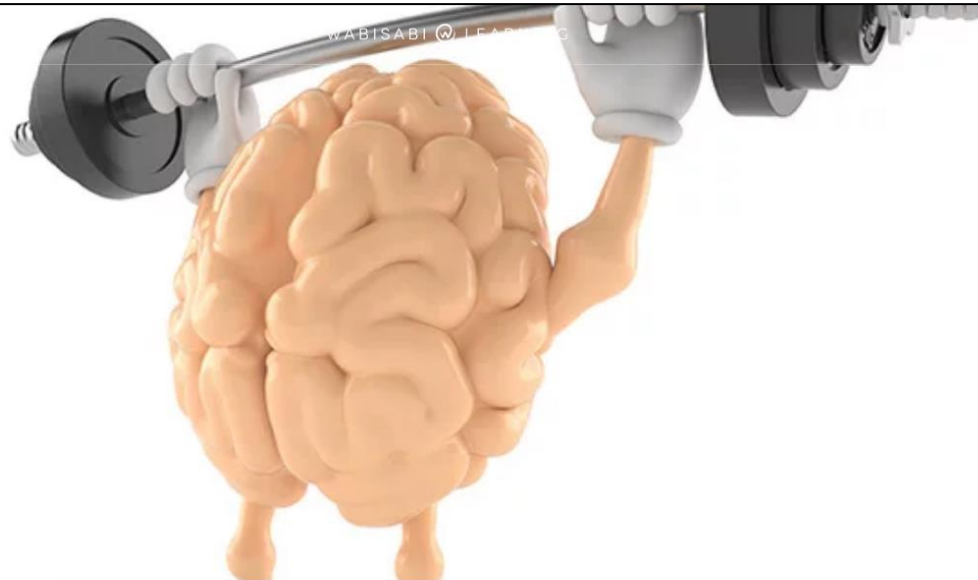


Without having growth mindset, you cannot acquire the essential skills necessary for success in your career and life!

Wabisabi's new address:

<https://blog.futurefocusedlearning.net>

The Importance of Mindset



OCTOBER 07, 2018

25 GROWTH MINDSET PRINCIPLES FOR
FEARLESS LEARNING

Without having growth mindset, you cannot acquire the essential skills necessary for success in your career and life!

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skills4studycampus offers a range of carefully paced modules where students are encouraged to complete a wide variety of interactive activities, tests and assessments and take ownership of their learning. Click on each module to find out more.



Getting ready for academic study



Reading and note-making



Critical thinking skills



Writing skills



Referencing and understanding plagiarism



Groupwork and presentations



Exam skills



Research principles



Projects, dissertations and reports



Employability and personal development



Confidence with numbers



Time management

Skills

Study Skills
Transferable Skills
Soft Skills
Employability Skills
Critical Skills
Hard Skills

Soft Skills are the traits, characteristics, habits and skills needed to survive and thrive in the modern work world.

See: UDEMY Course @ <https://www.udemy.com/soft-skills-the-11-essential-career-soft-skills>

Soft skills are personal attribute-driven general skills, such as the ability to give and receive feedback, work collaboratively, and manage time. They are usually self-developed (as opposed to hard skills, which you typically acquire in school or on the job), and they'll help you in a wide range of jobs, not just the target job you're applying for.

<https://www.livecareer.com/career/advice/jobs/soft-skills-in-demand>

Critical Skills

Use Soft Skills to Sell Your Hard-Earned Life Sciences Technical Expertise

If you're a student or early career professional in the life sciences, chances are you have focused on earning an education and building your technical expertise in the lab. You may not have had an opportunity to think about the soft skills – communication, teamwork and leadership, to name a few – that demonstrate intangible abilities in a tangible way. The experts explain how these skills factor into who gets the job, leads the team, makes the presentation and secures that important promotion.

“Technical depth will always be important, but life sciences is not just about technical expertise anymore,” says **Marquita M. Qualls, Ph.D.**, a leadership coach and founder and principal of Entropia Consulting, Washington, DC. “Career momentum is about building, interacting and working in cross-disciplinary teams.”

Multinational technology giant Google found the same results when they conducted research into hiring, firing and promotion data accumulated since the company's incorporation in 1998, as reported in a recent **Washington Post** article. Google found that among the eight most important qualities of its top employees, science, math, engineering and mathematics (STEM) expertise came in dead last. The top qualities for success at Google came from the soft skill set: being a good coach, communicating and listening well, possessing insights into others, having empathy, critical thinking and making connections across complex ideas.

The Washington Post
Democracy Dies in Darkness

The surprising thing Google learned about its employees – and what it means for today's students

Critical Skills

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In Focus

7 Critical Skills for the Jobs of the Future

By Raya Bidshahri - Jul 04, 2017 220,457



Critical Skills

07.26.17 | THE FUTURE OF WORK

Five Skills You'll Rarely See In Job Postings (But Definitely Need)

Employers are terrible at saying what's actually needed to succeed in a given role, but these soft skills usually are.



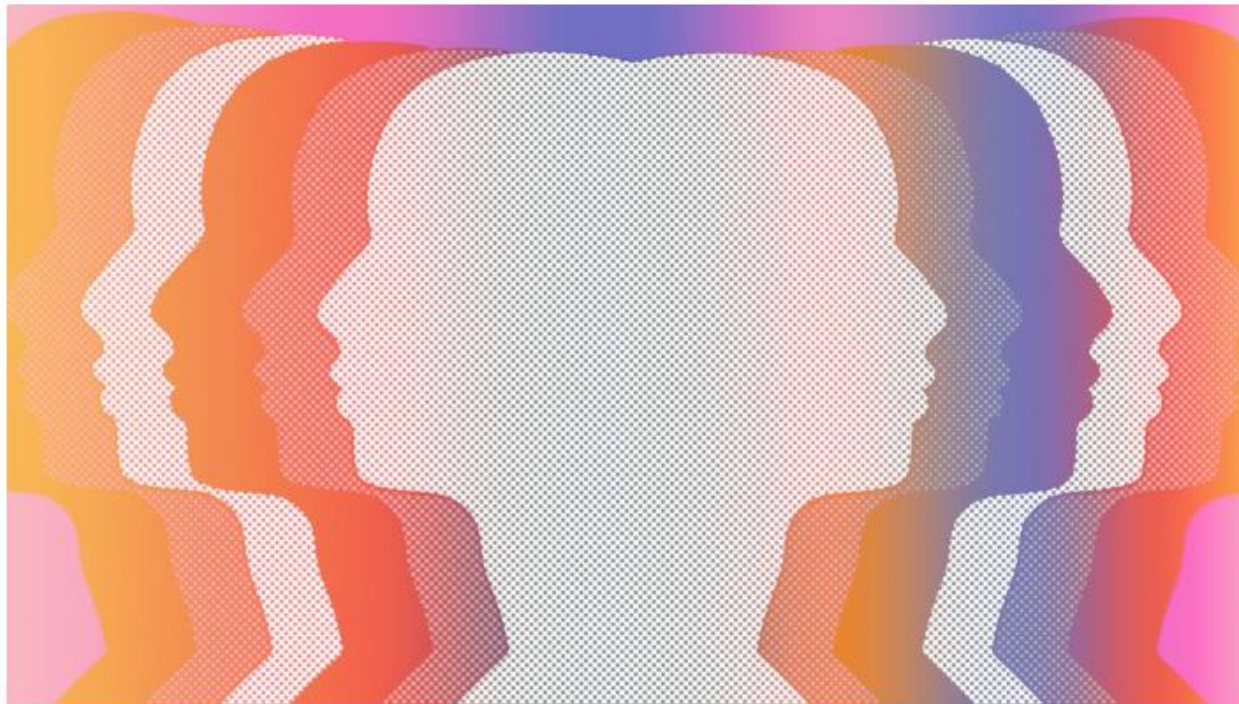
[Photo: Flickr user Rachel Sapp]

Critical Skills

06.20.18 | THE FUTURE OF WORK

These are the 5 “super skills” you need for jobs of the future

Work is changing, so to stay ahead you'll need to master these skills that you probably didn't learn in college.



[Illustration: Evgeny Gromov/iStock]

Critical Skills

5 SKILLS THAT EMPLOYERS WANT ON YOUR RESUME

1. COMMUNICATION (listening, verbal, written)

2. LEADERSHIP / MANAGEMENT SKILLS

Goal-driven leader who maintains a productive climate and confidently motivates, mobilizes, and coaches employees to meet high performance standards.

3. PLANNING | ORGANIZING

Results-driven achiever with exemplary planning and organizational skills, along with a high degree of detail orientation.

4. PROBLEM SOLVING | REASONING | CREATIVITY

Innovative problem-solver who can generate workable solutions and resolve complaints.

5. TEAMWORK

Resourceful team player who excels at building trusting relationships with customers and colleagues.

RESUME
FOUNDRY

Critical Skills



Critical Skills

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STEM employability skills

QUALITY ASSURED SUBJECTS: CAREERS CURATED COLLECTION

This STEM Learning resource collection aims to support STEM Ambassadors to highlight the top 10 employability skills to young people, with examples of activities and discussions to support young people to develop these skills in either school, college or other settings. The overview of the...

Top ten employability skills

QUALITY ASSURED TYPE: STEM AMBASSADOR

Employability Skills are often based on knowledge, technical skills and attitude – skills which employers greatly value in their employees.

This poster from STEM Learning highlights the 10 main skills that employers value. The accompanying guidance notes show you how to use the poster as...

Improve your STEM Skills

MEMBER POSTED BY: ANONYMOUS (NOT VERIFIED)

With thousands of tutors all across the UK, improve your STEM skills with a [private tutor](#) today! Search, browse and message tutors free of charge to find the perfect tutor for you. With tutors covering all ages and levels, find an expert, private tutor in your area today.

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STEM EMPLOYABILITY SKILLS/

Top ten employability skills

QUALITY ASSURED

Employability Skills are often based on knowledge, technical skills and attitude – skills which employers greatly value in their employees.

This poster from STEM Learning highlights the 10 main skills that employers value. The accompanying guidance notes show you how to use the poster as part of a careers activity session with tips to get you started.

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Preparing to develop employability skills through STEM activities - guidance notes	506.28 KB	Preview	Download
Employability skills support guidance notes (short version)	334.22 KB	Preview	Download

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The Top 10 Soft Skills in Demand

by Jacob Share

In August 2016, LinkedIn published the results of a year-long study they conducted on soft skills and listed the 10 that were the most sought-after by employers.

Top 10 Most In-Demand Soft Skills

(Based on % of members with skill who were hired into a new job)

1	Communication	57.9%
2	Organization	56.5%
3	Teamwork	56.4%
4	Always Punctual	55.9%
5	Critical Thinking	55.8%
6	Social Skills	55.8%
7	Creativity	55.0%
8	Interpersonal Communication	55.0%
9	Adaptability	54.9%
10	Friendly Personality	54.6%

Top 10 Least In-Demand Soft Skills

(Based on % of members with skill who were hired into a new job)

1	Business Planning	39.1%
2	Cross-functional Team Leadership	40.8%
3	Emotional Intelligence	41.7%
4	Team Building	41.9%
5	Coaching	42.0%
6	Management	44.1%
7	Analysis	44.2%
8	Team Management	44.2%
9	Resume Writing	45.0%
10	Business	45.2%

Critical Skills

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The Top 10 Soft Skills in Demand

by Jacob Share

1. Communication:

More than just clearly speaking the language, communication skills involve active listening and excellent presentation and writing capabilities. One highly sought-after communication skill is the ability to explain technical concepts to partners, customers, and coworkers who aren't tech-savvy.

2. Organization:

Planning and effectively implementing projects and general work tasks for yourself and others is a highly effective soft skill to have. Haphazard, slapdash organization wastes your colleagues' time and your employers' money, so having stacked skills in the organization department will always come in handy.

3. Teamwork Skills:

The bigger the company you work for, the bigger the chance that you're a member of more than one team, which means solid team player skills are crucial. How well do you work with other team members in reaching team goals? How do you help other team members? Are you an asset to every team that you're a part of, and how?

4. Punctuality:

No one likes to wait. Not for employees late to a meeting; not for candidates late to a job interview; and certainly not for colleagues who deliver their work late on million-dollar business projects. We've all heard some variation of "5 minutes early is on time. On time is late. Late is unacceptable." Where do you fall on the punctuality scale?

5. Critical Thinking:

The ability to use imagination, reasoning, past experience, research, and available resources to fundamentally understand and then resolve issues is attractive for obvious reasons. Highlight this skill by listing an example (or speaking of one in an interview) of a time when your company was dealt a sticky situation and you effectively addressed/resolved it via critical thinking skills.

6. Social Skills:

The more people you come into contact with on a daily basis, the more important your social skills will be to your success. Can you handle yourself in all situations when dealing with other people, regardless of stature, position, or rank? Can you deal with a wide variety of personalities?

7. Creativity:

This is probably the most underrated soft skill because it usually takes someone creative to appreciate the need for others who are, and most people just aren't that creative.

Creativity doesn't mean being an artist; it means being resourceful and innovative in finding solutions to problems at work. Can you tell a story of an unusual or unconventional way that you solved a problem at work?

8. Interpersonal Communication:

The ability to work in teams, relate to people, and manage conflict is a valuable asset in the workplace. Interpersonal communication is an important skill to hone to get ahead, and as you advance in your career, the aptitude to work with others becomes even more crucial.

9. Adaptability:

Don't underestimate the ability to adapt to changes. In today's tech-driven and rapidly evolving business environment, the ability to pick up on new technologies and adjust to changing business surroundings is critically important.

10. Friendly Personality: People want to work with people they like, or think they'll like—people who are easygoing, optimistic, and even fun to be around regardless of situation. Do other people tend to come away feeling good after working with you? How can you tell?

PS: Interested in learning more about skills both soft and hard? Check out LiveCareer's [2018 Skills Gap Report](#).

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LiveCareer

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The Top 10 Soft Skills in Demand

by Jacob Share

5 Skills that Appear Frequently in Job Ads but Not in Resumes



Positive Attitude



Retail Industry Knowledge



Teamwork



Physical Demand



Multitasking

4 Skills that Appear Frequently in Resumes but Not in Job Ads



Team Player



Budgeting



Microsoft Word



Time Management

PS: Interested in learning more about skills both soft and hard? Check out LiveCareer's [2018 Skills Gap Report](#).

Critical Skills

"Beckie Supiano wrote about why Enterprise Rent-A-Car hires only college graduates. To Enterprise, Beckie writes, 'a college degree matters mostly because it suggests that a candidate has acquired the right mix of skills to succeed in an entry-level job.' It suggests. It signals."

What companies like Enterprise are doing is far more pervasive and threatening to the public's view of the value of college. Enterprise is not looking for graduates to have specific technical skills, because the company trains its workers extensively. Instead, Enterprise believes that a college degree leads students to develop those elusive "soft skills," coveted by so many employers today:

creativity, empathy, the ability to communicate.

*If you will complete your University/College without acquiring the necessary critical skills,
you may not be treated as a University/College graduate!*

Critical Skills = *sine qua non*

Don't be obsessed with 'threshold qualities' that are the minimum requirements to be eligible for a job, it is '*sine qua non*' qualities, the indispensable and essential ones, that will get you the job (and a good job).

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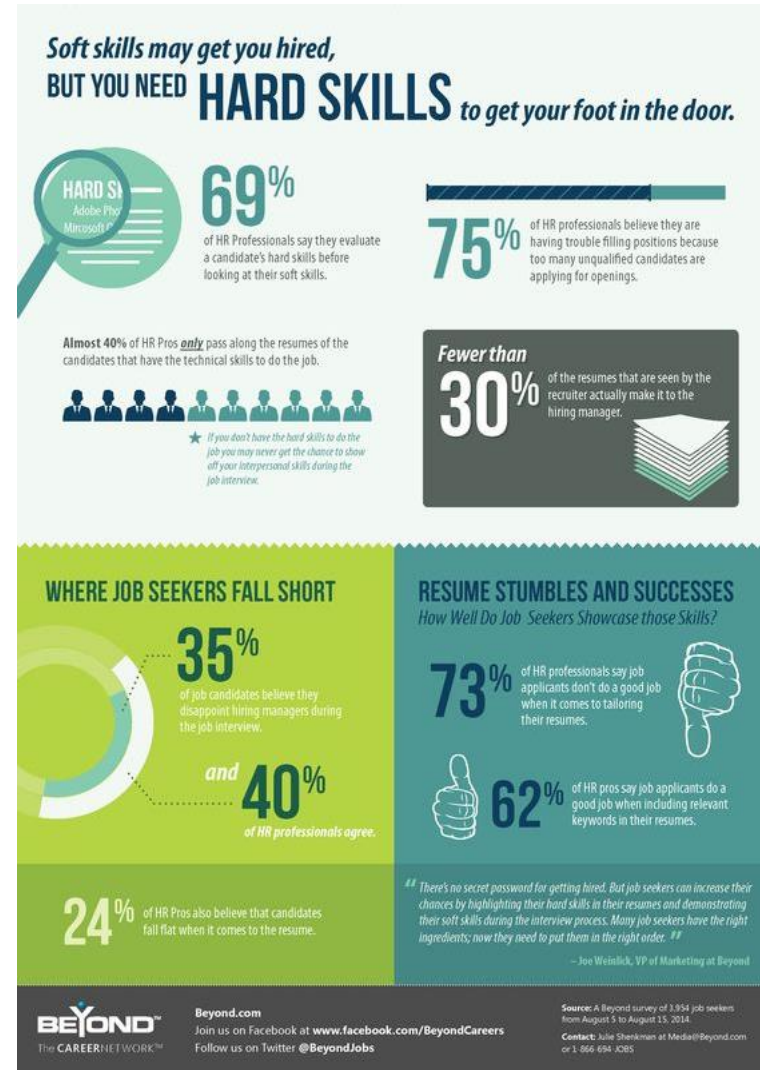
sine qua non

/ˌsɪni kwɑː ˈnəʊn, ˌsaɪni kweɪ ˈnɒn/

noun

an essential condition; a thing that is absolutely necessary.
"grammar and usage are the sine qua non of language teaching and learning"

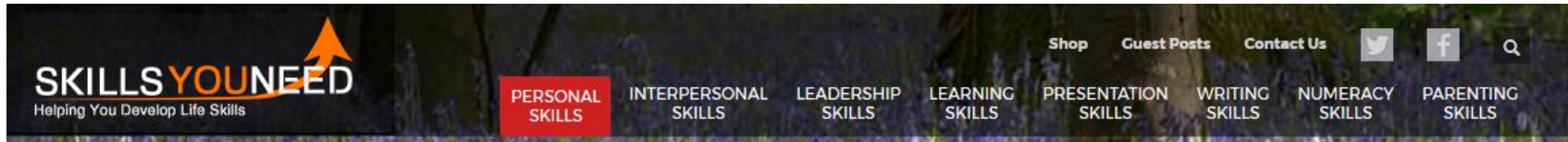
Critical Skills



Critical Skills

- Critical thinking [*the mother of all critical skills?*]
- Problem-solving
- Creativity
- Collaboration (team-work)
- Communication (including presentation)
- Decision making
- Negotiating
- Initiative, self-motivation and independent work / learning
- Numeracy and (data/statistical) literacy
- Assessing and analysing information
- Planning, organisation and time management
- Flexibility & ability to multi-task
- Overcoming difficulties to achieve your aims
- Agility & adaptability
- Curiosity and imagination
- Lab skills (if relevant)

XXXX



Develop The Skills You Need For Life

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Whether you're at work, a job seeker, student, teacher or parent, or just interested in developing your key skills, you will find plenty of information here about essential life skills. We hope that this information and these resources will help you to improve your personal and professional life.

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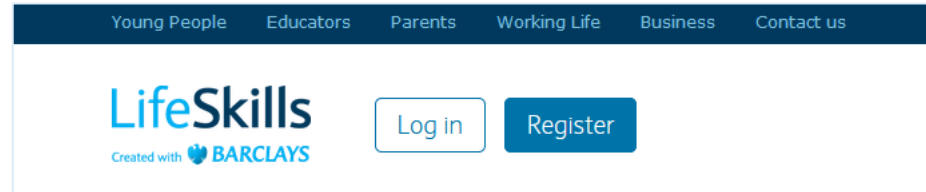
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Soft Skills

How Can You Learn Them?



LifeSkills helps you prepare for the 21st Century workplace



Listening and problem solving skills can be essential in the workplace

Our campaign shows how these skills can be vital in different work place situations. See more information on how you can master them and develop other key skills with LifeSkills.

Watch these skills in action →



Develop work skills for the 21st Century

We'll help you understand the skills that you need to step into any job with confidence.

See them all →



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Search from all our content and tools to help you get ready for your interview.

Prepare for an interview →

Soft Skills

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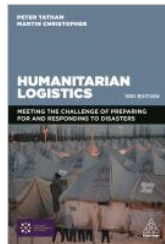
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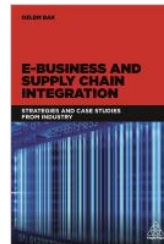
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Soft Skills

How Can You Learn Them?



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Information to promote the skills learners develop alongside their subject-based studies.

See where they can be further developed through our qualifications, Core Skills and our National Courses and Awards. It is important learners develop these skills across the curriculum as they provide learners with the skills they require to be independent and have a successful future.

[What are Skills for Learning, Life and Work?](#)

[What are Core Skills?](#)

Select an area below for a selection of qualifications which enhance these skills.

Core Skills

Numeracy

Soft Skills

How Can You Learn Them?



Core Skills

[Core Skills](#)

A group of five skills key to learning and working in today's world - Communication, Numeracy, Information and Communication Technology, Problem solving and Working with others.

Numeracy

[Numeracy](#)

The ability to use numbers in order to solve problems by counting, doing calculations, measuring and understanding graphs and charts.

Health and Wellbeing

[Health and wellbeing](#)

The ability to take care of yourself and others - including managing your feelings, developing a positive and active attitude to life, and building relationships with others.

Literacy

[Literacy](#)

Literacy is the ability to communicate by reading, by writing and by listening and talking.

Thinking Skills

[Thinking Skills](#)

The ability to develop the cognitive skills of remembering and identifying, understanding, applying, analysing, evaluating, and creating.

Employability, Enterprise and Citizenship

[Employability, Enterprise and Citizenship](#)

This is the ability to develop skills, understandings and personal attributes - including a positive attitude to work, to others and to the world's resources.

Soft Skills

How Can You Learn Them?

Palgrave (Macmillan) Study Skills

THE STUDY SPACE

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Improve your study skills ^

- Essential skills for study
- Student Life
- Critical thinking
- Revision and exam skills
- Writing and referencing
- Groupwork and presentations
- Research methods
- Career planning
- International Students

Multimedia v

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Head to the Essential Skills for Study section for advice on developing a study strategy that works for you!

Find out more

Got the right approach?

New audio
Tricks of the writer's trade

Listen for straightforward methods of constructing your writing in a clear, engaging manner and conveying your meaning as directly possible.

> Listen to the audio now

Writing and referencing

There are many different kinds of writing required for study, from note-taking to analysis and critical discussion. Your writing skills will develop considerably over the course of your studies.

Writing is a large part of assessment at university, so it's worth learning to enjoy the process and thinking about how you might continue to improve your writing style. Accurate referencing is important in all academic work. As a student you will need to understand the general principles to apply when citing sources and take steps to avoid plagiarism.

Quick Links

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- [Putting pen to paper](#)
- [Referencing and avoiding plagiarism](#)
- [Making notes](#)
- [Interpretation of essay questions](#)
- [Essay planning](#)
- [Revising your essay](#)
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- [Mature students: Writing activities](#)

Tricks of the writer's trade MP3

The secret to writing a great sentence is keeping it simple. Many people imagine that good writers use words in a complicated way, but the tricks of the trade are all about making your writing easy to read.

This audio explores some straightforward methods of constructing your writing in a clear, engaging manner and conveying your meaning as directly possible.

0:00 / 6:37



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This content is based on [Write it Right](#) by John Peck and Martin Coyle.

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- [Exam skills MP3](#)
- [Managing your finances MP3](#)

Soft Skills

How Can You Learn Them?

coursera

Explore ▾

What do you want to learn?



University and college students, learn job-ready skills for free with Coursera for Campus

Our free Coursera for Campus Student plan helps you build skills to add to your resume with unlimited Guided Projects and 1 free course per year

Enter your school email to get started.

Ensure the address is correct before submitting. You will be required to verify your address before joining the program.

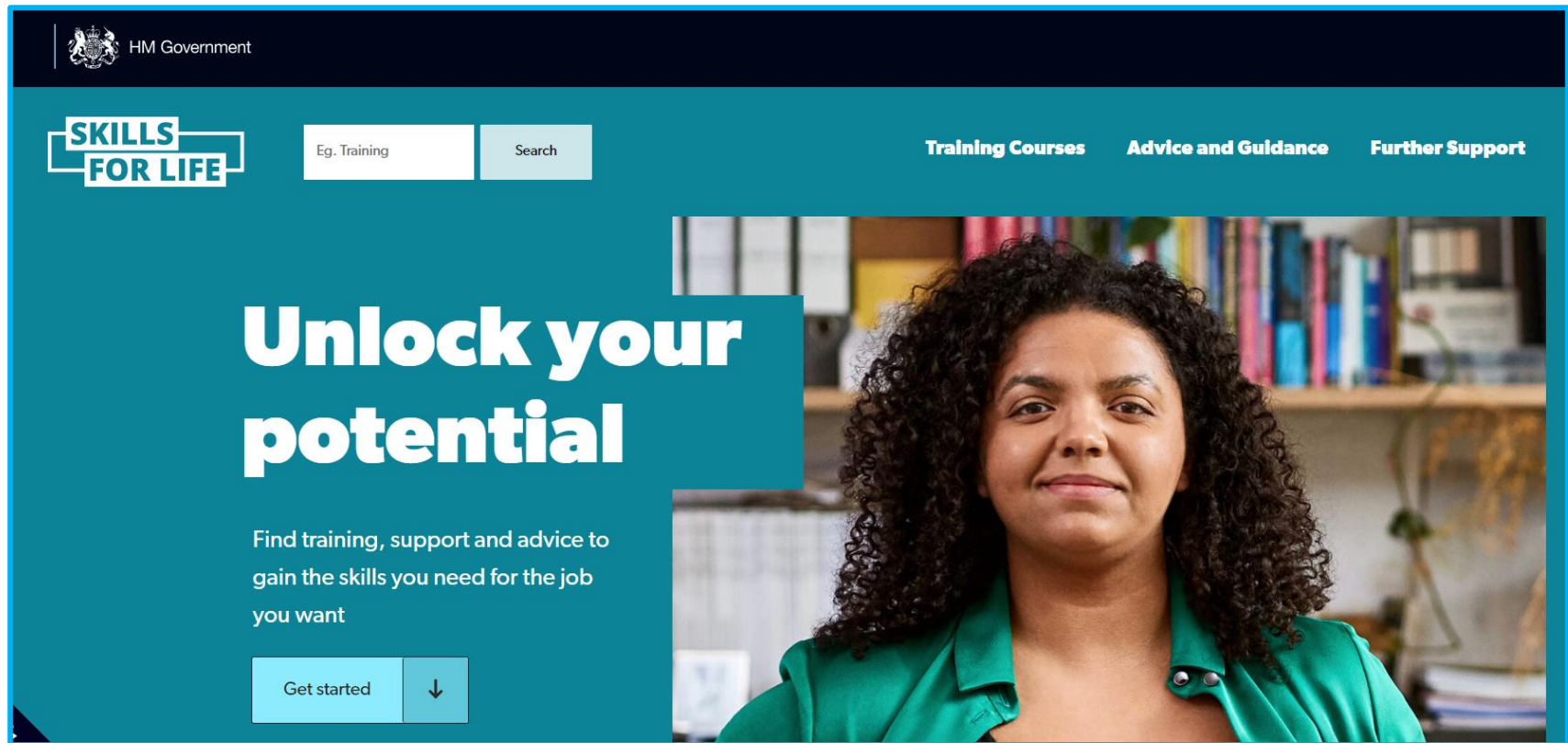
Your college or university email

Start

[Working at a university? See how to help your school.](#)

Soft Skills

How Can You Learn Them?



The screenshot shows the Skills for Life website. At the top left is the HM Government logo. Below it is the 'SKILLS FOR LIFE' logo. To the right of the logo is a search bar with the placeholder text 'Eg. Training' and a 'Search' button. Further right are three navigation links: 'Training Courses', 'Advice and Guidance', and 'Further Support'. The main content area features a large teal background with the text 'Unlock your potential' in white. Below this text is a smaller teal box with the text 'Find training, support and advice to gain the skills you need for the job you want'. At the bottom of this box is a 'Get started' button with a downward arrow. To the right of the text is a photograph of a woman with curly hair wearing a green shirt, standing in front of a bookshelf.

HM Government

SKILLS FOR LIFE

Eg. Training Search

Training Courses Advice and Guidance Further Support

Unlock your potential

Find training, support and advice to gain the skills you need for the job you want

Get started ↓

Soft Skills

How Can You Learn Them?



HM Government

The Skills Toolkit

Free courses to help you learn new skills or get a new job.

Learn about:

- practical maths
- computer essentials
- personal growth and wellbeing
- professional development
- business and finance
- digital design and marketing
- computer science and coding

Academic Writing

SCIENTIFIC WRITING RESOURCES

Mehmet Tevfik DORAK

Kingston University London, UK

[Scientific Writing Presentation](#)

>>> [Bitesize Biology: Writing Your First \(or Next\) Paper](#) <<<

Part I: <http://bitesizebio.com/2010/08/04/writing-your-first-or-next-paper-part-i>

Part II: <http://bitesizebio.com/2010/08/09/writing-your-first-or-next-paper-part-ii>

Part III: <http://bitesizebio.com/2010/08/13/writing-your-first-paper-part-iii>

Part IV: <http://bitesizebio.com/2010/08/18/writing-your-first-paper-part-iv>

>>> [NATURE Scitable: English Communication for Scientists](#) <<<

English Communication for Scientists is a brief guide on how to communicate more effectively in English.

Although it was developed with non-native speakers of English in mind, it should prove useful for native speakers, too.

Created by seasoned communicators, English Communication for Scientists provides no-nonsense, directly applicable guidelines, illustrated with examples of written documents, oral presentations, and more.

[Unit 1: Communicating as a Scientist](#)

[Unit 2: Writing Scientific Papers](#)

[Unit 3: Writing Correspondence](#)

[Unit 4: Giving Oral Presentations](#)

[Unit 5: Interacting During Conferences Sessions](#)

[Unit 6: Communicating in the Classroom](#)

>>> [Clinical Chemistry Guide to Scientific Writing](#) <<<

[Part 1. The Title Says It All](#)

[Part 2. The Abstract and the Elevator Talk: A Tale of Two Summaries](#)

[Part 3. "It was a cold and rainy night": Set the Scene with a Good Introduction](#)

[Part 4. Who, What, When, Where, How, and Why: The Ingredients in the Recipe for a Successful Methods Section](#)

[Part 5. Show Your Cards: The Results Section and the Poker Game](#)

[Part 6. If an IRDAM Journal Is What You Choose, Then Sequential Results Are What You Use](#)

[Part 7. Put Your Best Figure Forward: Line Graphs and Scattergrams](#)

[Part 8. Bars and Pies Make Better Desserts than Figures](#)

[Part 9. Bring Your Best to the Table](#)

[Part 10. The Discussion Section: Your Closing Argument](#)

[Part 11. Giving Credit: Citations and References](#)


[Part 12. How to Write a Rave Review](#)

[Part 13. Top 10 Tips for Responding to Reviewer and Editor Comments](#)

[Part 14. Passing the Paternité Test](#)

>>> [Writing Essays @ University](#) <<<

Academic Writing



How to Write a Paper in Scientific Journal Style and Format




Table of Contents

[How to Use This Guide](#)

[Introduction to Scientific Writing](#)

[A Strategy for Writing the Paper](#)

[Other Useful References](#)

Critique & Revision

[Making Effective Comments](#)

[Revising Your Paper](#)

[Peer Review Form](#)

[On-Line Resources Home](#)

[Frequently Asked Questions: FAQs](#)

[CBB Plagiarism Resource Website](#)

How Do I Write the...

[Journal Style Format](#)

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How Do I...

[Tables and Figures](#)

[Reporting Statistical Results](#)

[Citing References](#)

[Latin Names](#)

[Abbreviations and Units of Measure](#)

Greg Anderson

Note: Many of the pages are now available in printer friendly PDF format.
Look for the link on the top each page below the title.

Department of Biology, Bates College
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Academic Writing


Bates College Resources

- [Bates College Policy on Academic Integrity](#)
- [Ladd Library](#) (access to on-line research tools)
- [Information and Library Services](#)
- [Software downloads](#)
- [Bates College Imaging and Computing Center](#)
- [ARC – Academic Resource Commons](#)
- [The Mathematics and Statistics Workshop](#)
- [Center for Global Education: Off-Campus Study](#)
- [Student Employment Office](#)
- [Mount David Summit](#)
- [Botany Database](#)




Scientific Communication

- [Writing at Bates: Scientific Writing Support \(ARC\)](#)
- [How to Write a Paper in Scientific Journal Style and Format](#) | [\[PDF version\]](#)
- [Word Usage in Scientific Writing](#)
(J. Mammalogy, with permission)
- [Collaborative Writing in the Core Courses](#)
- [Peer Review Form](#) (pdf)
- [Authors' Summary of Reviewers' Comments](#) (pdf)
- [Revision Response Form](#) (pdf)
- [Group Strategy for Responding to Peer Reviews](#)
- [Poster Making 101](#)
- [Making Effective Posters](#) (pdf)
(by *Seri Rudolph*)
- [Scientifically Speaking](#) (pdf)
Guide for posters and speaking presentations.
(Source: Oceanographic Society, with permission.)
- [Writing and Citing Guides](#) (Ladd Library)


Numeracy Skills




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- › [Numbers | An Introduction](#)
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- › [Systems of Measurement](#)
- › [Common Mathematical Symbols](#)
- › [Apps to Help with Maths](#)

Numeracy Skills

See also: [Percent Calculators](#)

Numeracy Skills Count

Improved numeracy skills lead to better paid jobs, greater well-being and a less stressful life.

Numeracy skills are not just for scientists, accountants and the tax man, many professions require at least a basic level of understanding when it comes to numeracy and mathematics. Take some time to develop your numeracy skills - it's never too late to learn.

Chris Humphries, Chairman of National Numeracy, talking to the BBC said:

"It is simply inexcusable for anyone to say 'I can't do maths.'"

Statistical Literacy

Statistical Literacy

Mehmet Tevfik DORAK, MD PhD

Professor

*School of Life Sciences, Pharmacy & Chemistry
Kingston University London*

<http://www.dorak.info>

**Kingston
University
London**

BIOSTATISTICS NOTES

Mehmet Tevfik DORAK, MD PhD

Online Courses

MOOC

Massive Online Open Courses

[LinkedIn Learning](#)

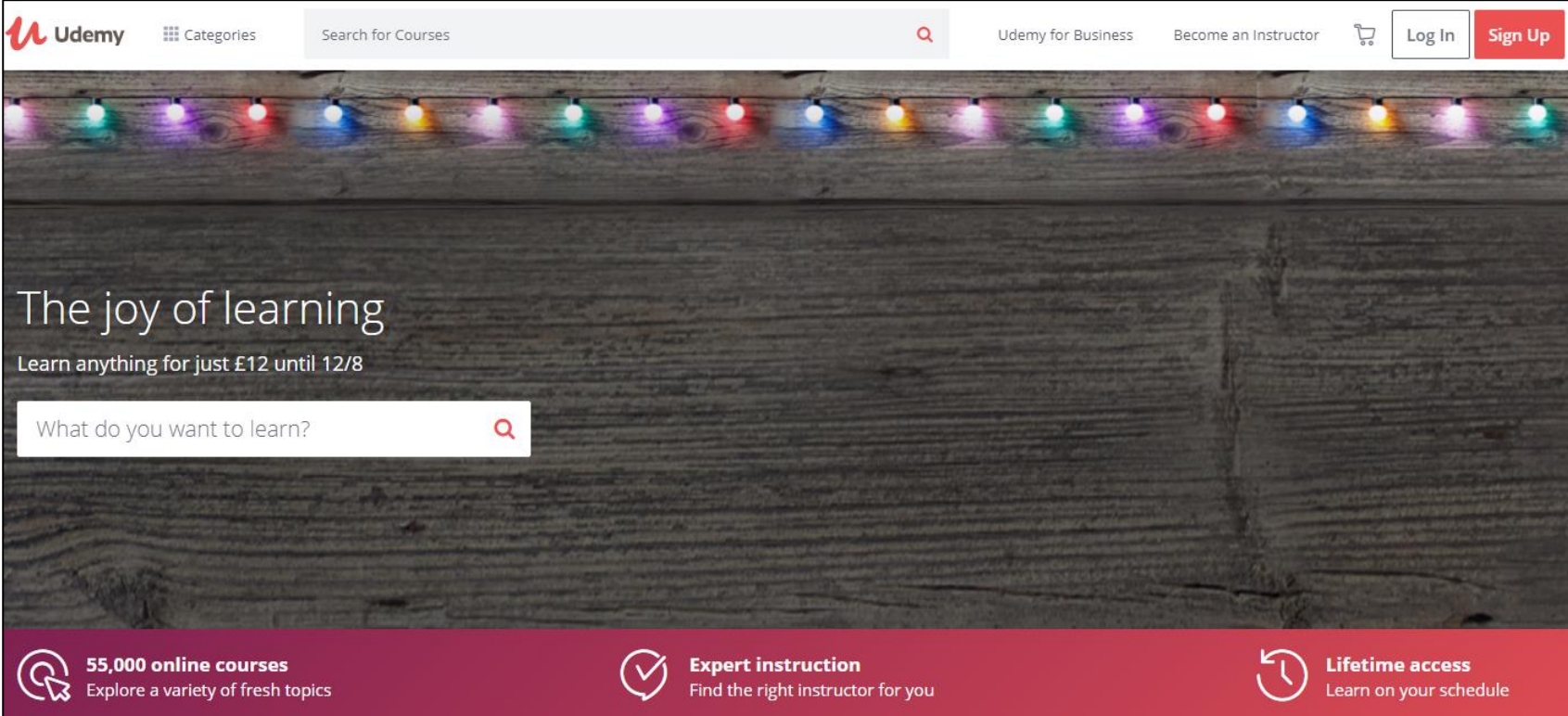
[STF](#) [EdX](#) [Coursera](#) [FutureLearn](#)

[OU OpenLearning](#)

[Khan Academy](#) [Saylor Academy](#)

[Udemy](#)

Self Study

The image shows the Udemy homepage. At the top is a navigation bar with the Udemy logo, a 'Categories' link, a search bar with the placeholder 'Search for Courses', and links for 'Udemy for Business', 'Become an Instructor', 'Log In', and 'Sign Up'. Below the navigation bar is a large banner with a dark wood background and a string of colorful Christmas lights at the top. The text 'The joy of learning' is prominently displayed, followed by 'Learn anything for just £12 until 12/8'. Below this is a search bar with the placeholder 'What do you want to learn?'. At the bottom of the banner is a red bar with three icons and text: a magnifying glass icon for '55,000 online courses', a checkmark icon for 'Expert instruction', and a clock icon for 'Lifetime access'.

<https://www.udemy.com>
[Free Udemy Courses](#)

Self Study

Google Digital Garage



The Open
University

OpenLearn

Free learning from
The Open University



► Subjects ► Money & Business ► All content ► **Soft skills training**

Money & Business

Featured content

Free courses

All content

Soft skills training

Updated Tuesday, 1 January 2019

Learn to recognise the importance of soft skills and how you can improve skills in yourself and your organisation, with free courses from OpenLearn, endorsed by Google.

This content is associated with The Open University *Open Degree qualification*.

The phrase 'soft skills' incorporates a wide variety of personality traits, communication and people skills, social attitudes and emotional intelligence. These qualities (also known as 'core skills') are increasingly important for success in the workplace – and not just for those in leadership positions. Everyone can benefit from some focused training and development to help them realise their full potential. OpenLearn has a number of courses you can study to enhance your soft skills right now, which you can find on this page.

Self Study

The screenshot shows the PLOS Collections website. At the top right, there are links for 'plos.org', 'create account', and a 'sign in' button. The PLOS logo and 'COLLECTIONS' text are on the left. Navigation links for 'About' and 'Browse' are in the center. A search bar with the text 'Search' and a magnifying glass icon is on the right, with a link to 'advanced search' below it. The main content area features a large blue banner for the '10 SIMPLE RULES' collection. On the left side of the banner, there is a light blue box with the title 'Ten Simple Rules' and a description: '"Ten Simple Rules" provide a quick, concentrated guide for mastering some of the professional challenges research scientists face in their careers.' Below this description is a 'More >' link. The banner background has a large '10 SIMPLE RULES' text and a faint molecular structure graphic. At the bottom of the banner, there is a dark bar with a 'Sections' dropdown menu and social media icons for Facebook, Twitter, and Email.

plos.org create account sign in

PLOS COLLECTIONS About Browse Search advanced search

Ten Simple Rules

"Ten Simple Rules" provide a quick, concentrated guide for mastering some of the professional challenges research scientists face in their careers.

More >

10 SIMPLE RULES

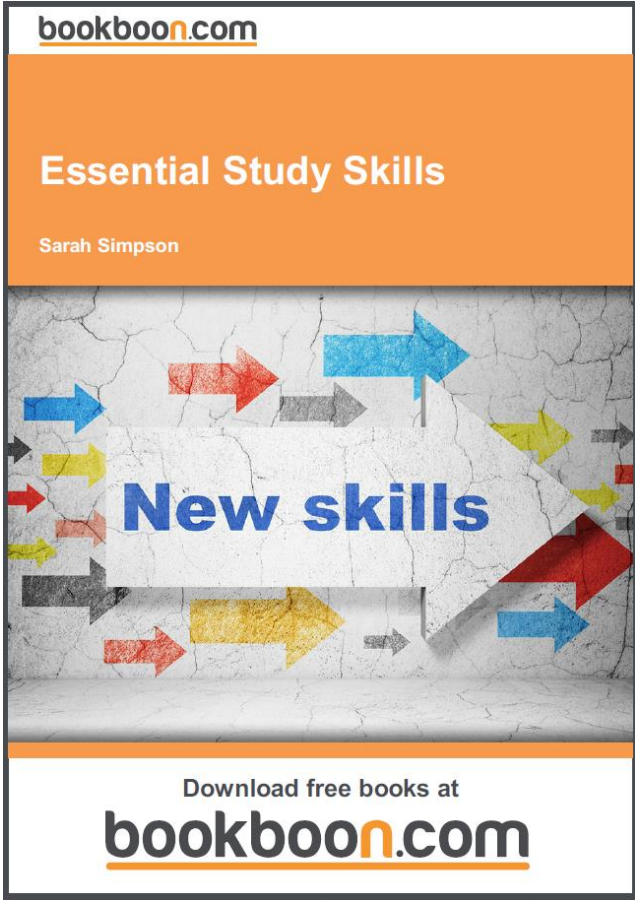
Sections ▾

Facebook Twitter Email

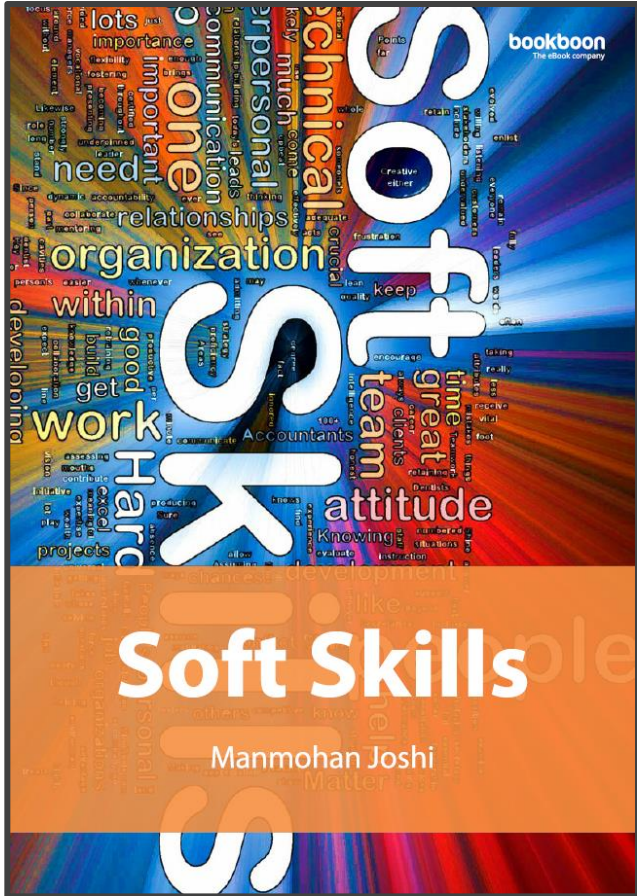
<http://collections.plos.org/ten-simple-rules>

Self Study

For basic study (not critical) skills:



For critical skills:



Statistical Literacy

Statistical Literacy

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BIOSTATISTICS NOTES

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Welcome to Mehmet Tevfik DORAK's Website

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[Biostatistics & Statistical Literacy](#)

[Statistics & Graphics with R](#)

[Critical Skills](#) [Critical Thinking](#)

[Leadership & Equality](#) [Gender Equality](#)

[Essentials of Genetics](#)

[Genome Biology for Genetic Epidemiologists](#)

[Immunogenetics](#)

[Evolutionary Biology Notes](#)

[Music Notes](#)

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